

STEREO CASSETTE TUNER

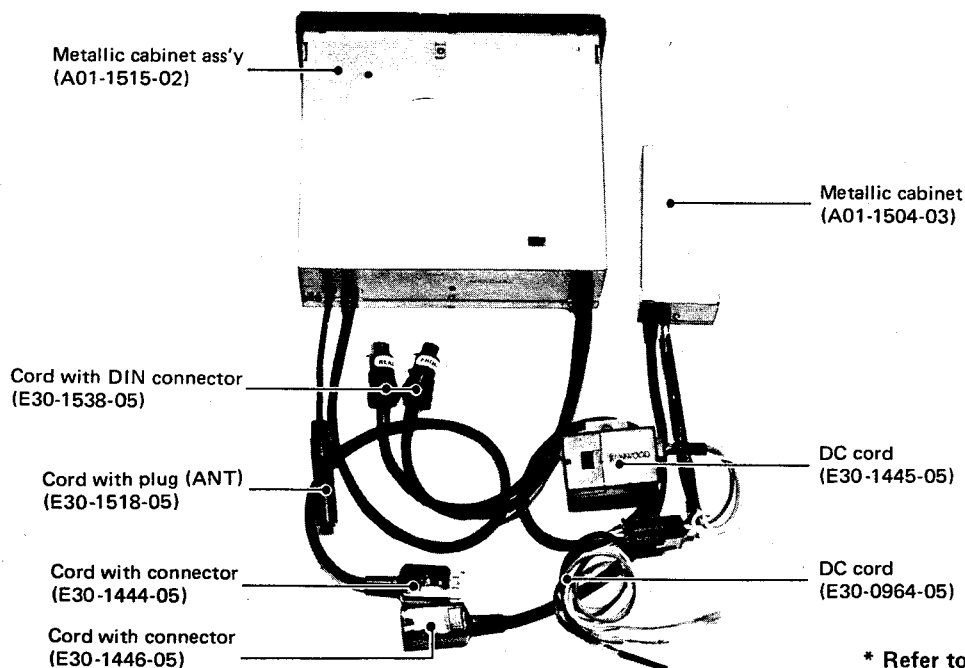
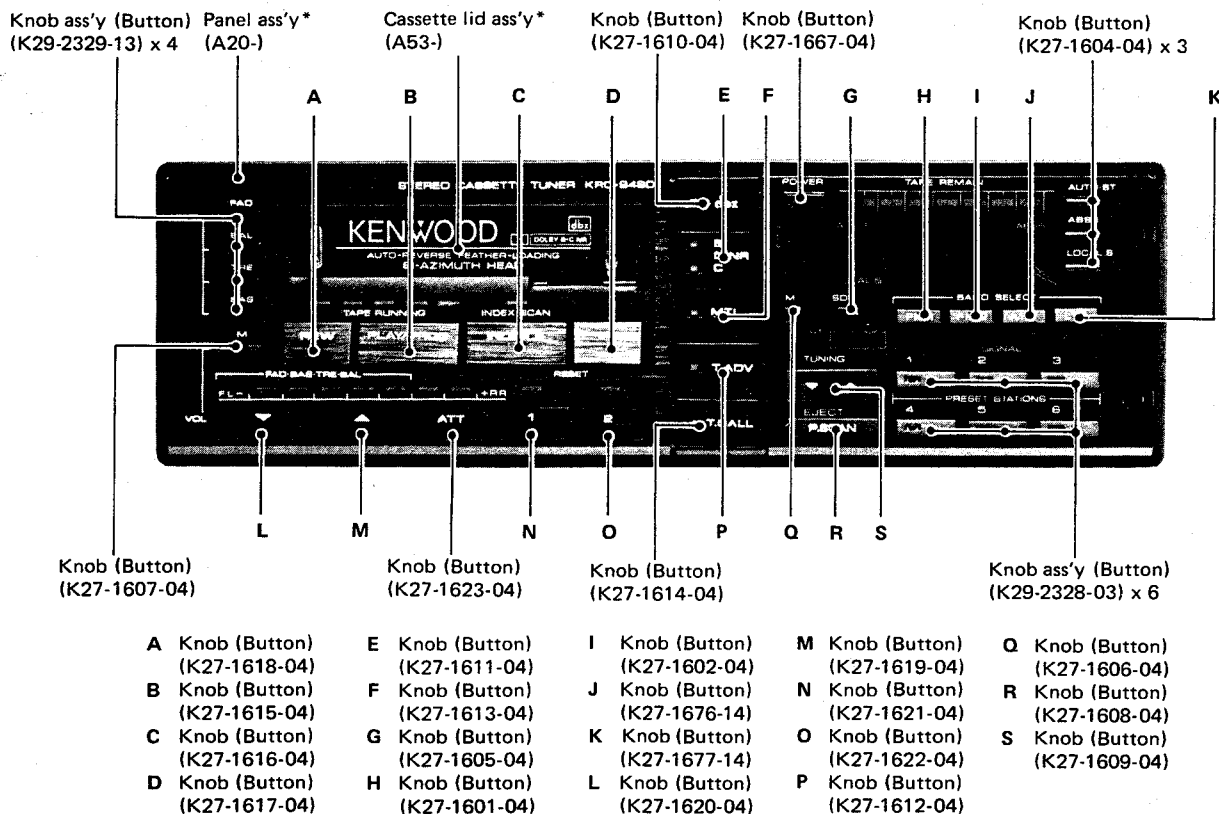
KRC-949D

SERVICE MANUAL

KENWOOD

KENWOOD CORPORATION

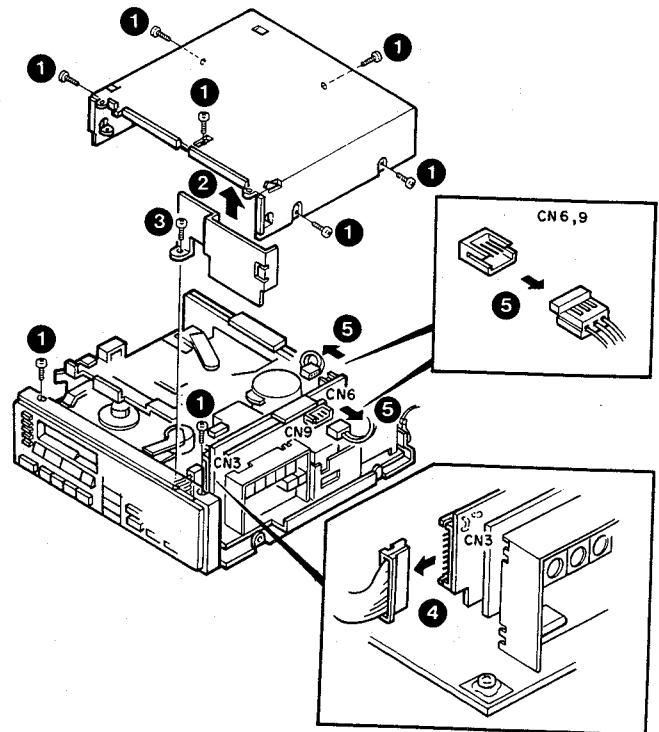
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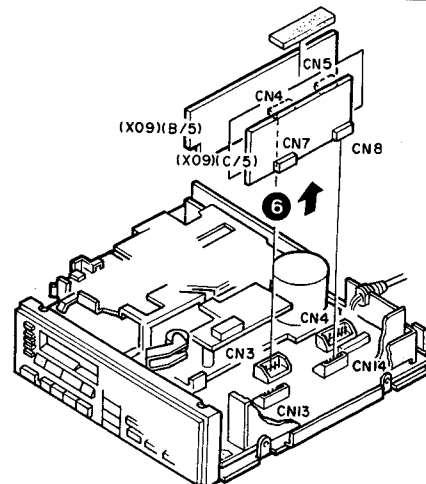
* Refer to parts list on page 39.

DISASSEMBLY FOR REPAIR

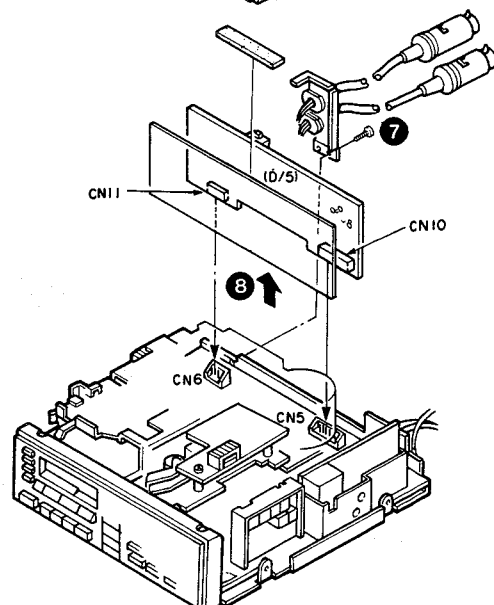
1. Remove the eight screws retaining the case (two on the upper side of the front panel, four on both sides, one from the top and one screw on the rear) (①).
2. Remove the case (②).
3. Remove a screw and metal fitting (③).
4. Remove the connector (CN3) (④).
5. Remove the connectors (CN6, CN9) (⑤).



6. Remove the PC boards (X09)-(B/5), (X09)-(C/5) from the main PC board by disconnecting the connectors (CN3, CN4, CN13, CH14) (⑥).

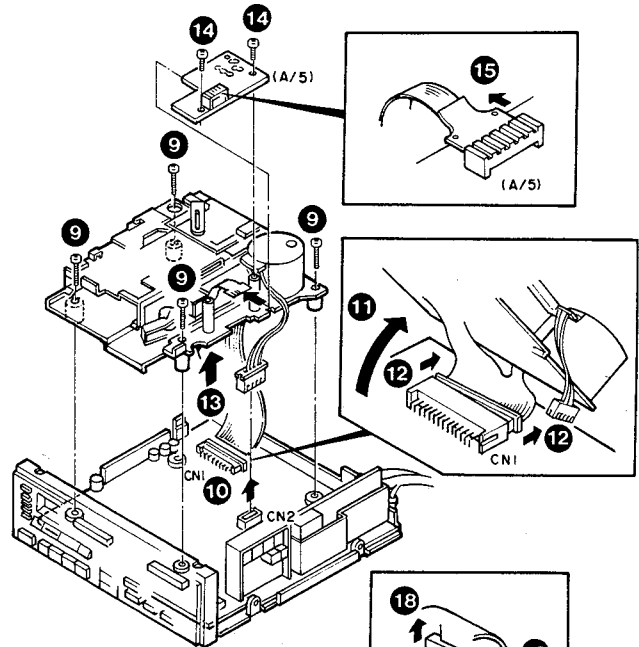


7. Remove the metal fitting with the DIN connector connected (⑦).
8. Remove the PC board (X09)-(D/5) from the main PC board by disconnecting the connectors (CN5, CN6) (⑧).

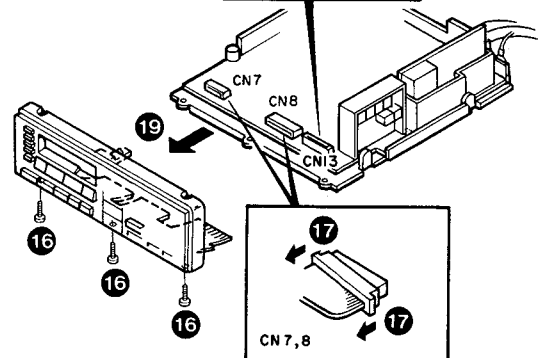


DISASSEMBLY FOR REPAIR

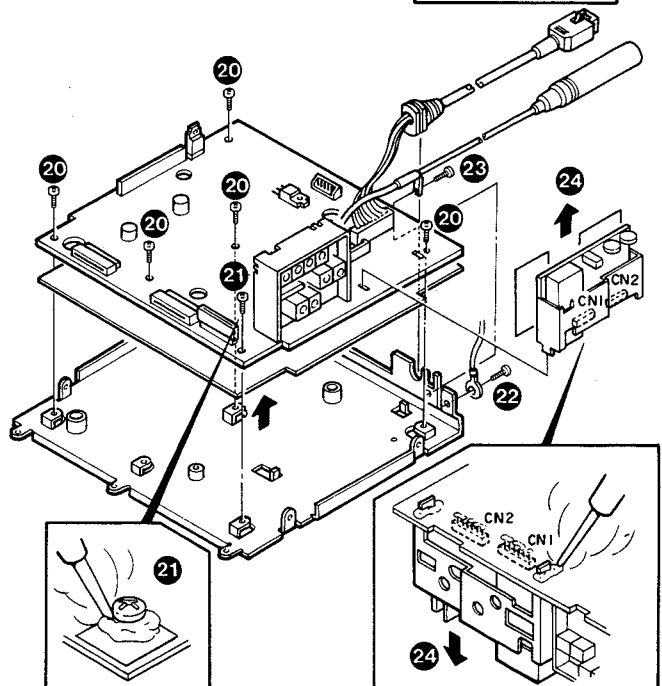
9. Remove the four screws retaining the mechanism (9).
10. Remove the connector (CN2) (10).
11. Lift the front of the mechanism up (11).
12. Remove the flexible board from the connector (CN1) (12).
13. Now the mechanism can be removed (13).
14. Remove the PC board (X09-) (A/5) (14).
15. Remove the flexible board connected to the PC board (X09-) (A/5) (15).



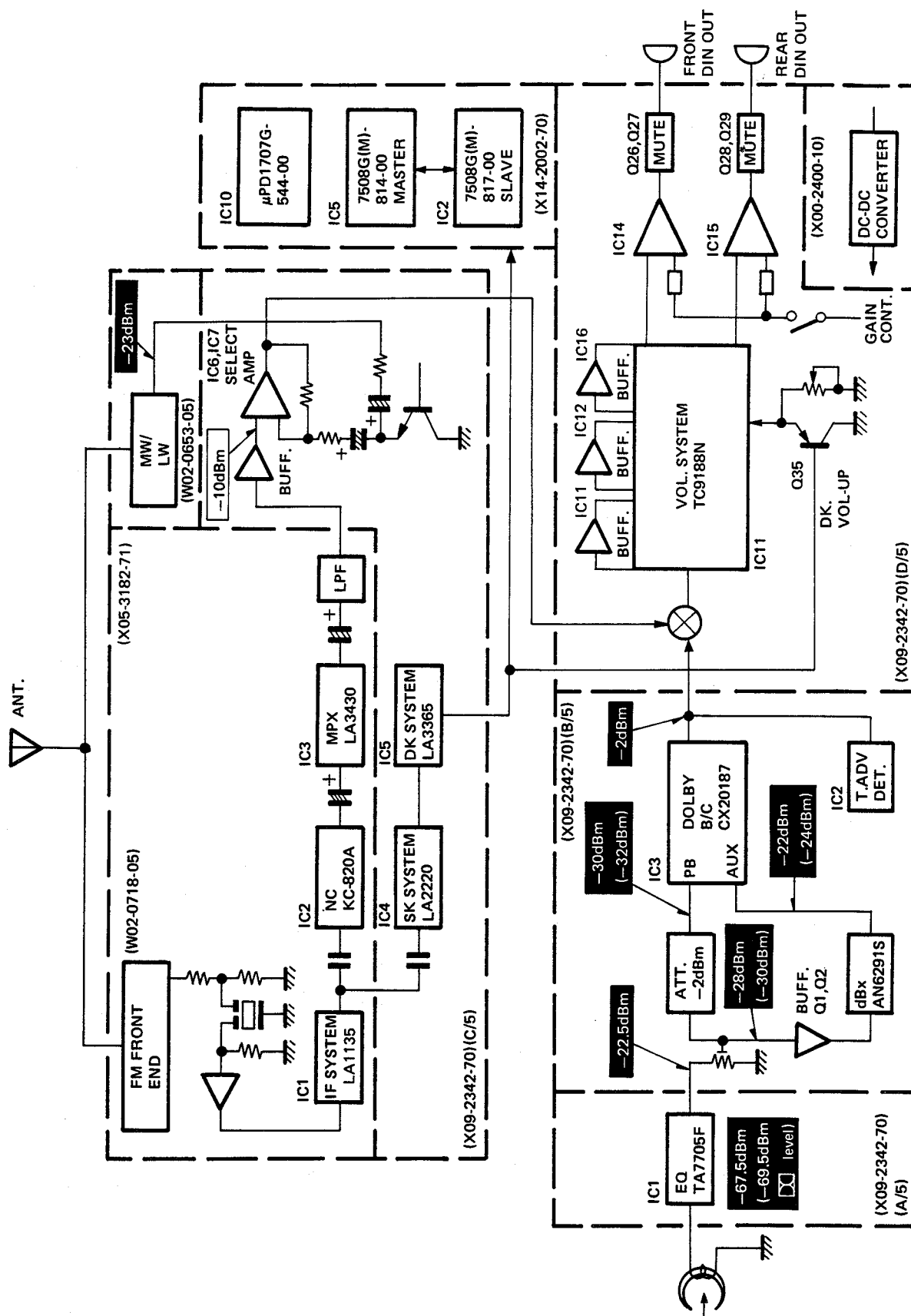
16. Remove the three screws on the lower side of the front panel (16).
17. Remove the connectors (CN7, CN8) (17).
18. Remove the connector (CN9) (18).
19. Now the front panel can be removed (19).



20. Remove the five screws retaining the main PC board (20).
21. Remove the screw after desoldering (21).
22. Remove the ground lead from the rear (22).
23. Remove the screw retaining the antenna lead, and remove the connector cord (23).
24. Desolder the PC board (X14-2002-70) and remove it from the rear of the main PC board (24).



BLOCK LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Description of components

POWER SUPPLY UNIT (X00-2400-10)

Component	Application/function	Operation/condition/compatibility
Q1	Relay driver	
Q2	Relay driver control	
Q3,5	+ B AVR	Darlington.
Q4,6	– B AVR	Darlington.
Q7	+ B holding circuit	Current limitation.
Q8	– B holding circuit	Current limitation.
Q9	+ B reference comparison	
Q10	– B reference comparison	
Q11,12	Constant-voltage LED constant current	
Q13,14	Monostable multivibrator	

AUDIO UNIT (X09-2342-70)

Component	Application/function	Operation/condition/compatibility
IC1	Equalizer	
IC2	dbx	
IC3	Dolby B/C	
IC4	SK system	
IC5	SD system	
IC6	FM signal amp.	
IC7	FM/AM select	
IC11	Electronic volume	
IC12	Buffer/tone	
IC13	Buffer/tone	
IC14	DIN output amp	
IC15		
IC16	Electric volume, stage duration buffer	
Q1,2	dbx input buffer	
Q3	AVR for Dolby/dbx	
Q5	DK amp.	
Q6	Gain select for Q5	
Q7	SK ON/OFF switch	
Q8	SK LED driver	
Q9	SK/SD	
Q10	DK operation control	
Q11	DK ON/OFF switch	
Q12,13	AM input short	Short-circuits the AM signal to grounding when in FM mode.
Q22~25	TAPE/TUNER select	
Q26~29	Output mute	
Q30,31	TAPE mute	Mutes the tape input when tuner is selected. (For prevention of Q signal leakage.)
Q32~34	Volume up	Normally ON. Turns OFF when interrupted.
Q35	Volume UP drive	

CIRCUIT DESCRIPTION

SYNTHESIZER UNIT (X14-2002-70)

Component	Application/function	Operation/condition/compatibility
IC1	Mechanism control, hybrid	
IC2	Mechanism control microprocessor (slave)	
IC3	Exclusive OR	Reel pulse to interruption pulse.
IC4	Comparator	Reel pulse waveform shaper.
IC5	Mechanism control microprocessor (master)	
IC6	BCD to binary	
IC7	TAPE display digit driver	
IC8	TAPE display segment driver	
IC9	Inverter/monostable multi-vibrator	
IC10	Synthesizer microprocessor	
IC11	Pulse swallow counter, pre-scaler	
IC12	TUNER display segment driver	
IC13	TUNER display digit driver	
Q1	Main motor control	PLAY ON.
Q2	Main motor control	EJECT ON.
Q3	PLAY/EJECT switch	PLAY ON.
Q4	PLAY/EJECT switch	EJECT ON.
Q5	PLAY/EJECT switch	PLAY ON.
Q6	PLAY/EJECT switch	EJECT ON.
Q7	AVR for EQ (equalizer)	
Q8	Mechanism microprocessor, T.ADV input driver	
Q9	Dolby B/C switch	C : ON.
Q10	Dolby ON/OFF switch	Dolby ON : ON.
Q11	EQ (equalizer) select	70 μ S : ON.
Q12	TAPE/TUNER select	TAPE : ON.
Q13	Forward/Reverse select	
Q14	Mechanism microprocessor, Mute DC level shift	
Q15	Reset switch	
Q16,17	T.ADV signal amp.	
Q19	TAPE/TUNER control	
Q20	Mute control	
Q21	Mute driver	
Q22	TAPE/TUNER select	TUNER : ON.
Q23	TAPE/TUNER select	TAPE : ON
Q24	TUNER ON when CD mode	Turns ON when CD in.
Q25	TUNER power drive	OFF when TUNER mode.
Q26	CD control switch	
Q27		
Q28	ACC control switch	
Q29	dbx control, DC level shift	
Q30	Mechanism control, hybrid IC power switch	Turns OFF 3 seconds after ACC OFF.
Q31	Main motor power switch	
Q32	ACC control	
Q33	Mechanism power switch	
Q34	Eject switch	
Q51	Microprocessor AVR	+ 5.6V.
Q52,53	Mechanism control hybrid IC AVR	+ 5V.
Q54	ACC detect	
Q55	SKO prohibition when Power ON	
Q56	Sh', Si' display prohibition when Power ON	
Q57		
Q58	Relay driver, DC level shift	
Q59	FM + B switch driver	

CIRCUIT DESCRIPTION

Component	Application/function	Operation/condition/compatibility
Q60	Microprocessor FM output invert	
Q61		
Q62	Microprocessor FW output invert	
Q63	Microprocessor mute output invert	
Q64		
Q65,66	Tuner display AVR	
Q67	ACC detection	
Q68	Microprocessor LW output invert	
Q69	TAPE/TUNER line prohibition when band interrupting on TAPE play mode	
Q70	Si driver	
Q71	Sh driver	
Q72	P.Scan inhibition when TAPE mode	
Q73	Pre-scaler + B switch	Turns ON when FM mode.
Q74	MTX SC releasing when TAPE mode	
Q75	MUTE prohibition when DK mode receiving	
Q76	P. Scan switch	
Q77		
Q78,79	FM/AM + B	9.4V.
Q80	TUNER microprocessor muting hibition when TAPE mode	
Q81	ACC switch (Q28) driver	
Q82	AM + B switch driver	
Q83	AM + B switch	
Q84	AM inhibition	
Q85	FM + B switch	
Q87		
Q88	LO-PASS input control for FM, MW bands	
Q89,90	LW LPF DC amp.	
Q91	AGC cut	Turns ON when AM seek mode.
Q92	MW/LW select signal	
Q93	FM SD invert	
Q94	LO-PASS input control for LW band	
Q95	CE control	
Q96	LO-PASS input control for LW band	
Q98	Microprocessor SD pin driver	
Q99	AM SD invert	
Q100,101	FM/MW LPF DC amp.	
Q102	Forced mono invert	
Q103	ST LED driver	
Q104,105	Forced mono detection	AUTO (forced mono)
Q106	ST LED driver switch	Forced mono : OFF.
Q107	FM detect (display “,”)	
Q108	SK, SD INV.	
Q109	SK OUT INV.	

CIRCUIT DESCRIPTION

Tuner microprocessor (μ PD1707G-544)

● Outline

μ PD1707G-544 is a CMOS LSI developed for FM/FW/LW radios of PLL frequency synthesizer system good for the whole world. Whether to use the PLL in the interior of μ PD1707G-538 or to use an external electronic tuning PLL IC LM7000 may be selected in the initial setting.

● Outline of functions

1. Preset memory initialize

Destination	Band	M1	M2	M3	M4	M5	M6
U.S.A.	FM	87.9	90.1	98.1	106.1	107.9	87.9
	MW	530	600	1000	1400	1620	530
Japan	FM1	76.1	78.0	83.0	88.0	89.9	76.1
	MW1	522	603	999	1404	1629	522
Europe	FM1	87.50	90.10	98.10	106.10	108.00	87.50
	MW	522	603	999	1404	1611	522
	LW1	155	164	218	272	281	155
	LW2	153	162	216	270	279	153
South Africa	FM1	87.50	90.10	98.10	106.10	108.00	87.50
	MW1	522	603	999	1404	1611	522
Oceania	FM1	87.5	90.1	98.1	106.1	108.0	87.5
	MW1	531	603	999	1404	1602	531

● Features

- 5V $\pm$ 10% single power supply.
- Built-in PLL and controller.
- Manual and auto UP/DOWN tuning function (saw-wave mode).
- Preset of six stations can be stored independently for FM1/FM2/FM3/MW1/MW2/LW (4 bands at maximum) using six buttons.
- Last channel memory FM/MW/LW, one station each.
- Auto memory and preset scan function in a band.
- ABSS function which detects worsening of receiving status and begins UP SEEK.
- ABSS function which detects worsening of receiving status and begins preset scanning.
- Clock function of 12/24 hours display.

Unit : FM MHz, MW, LW kHz

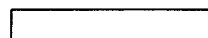
2. Receiving frequency

Destination	Band	Frequency range	Channel space		Reference frequency	Intermediate frequency
			Manual	Auto		
U.S.A.	FM	87.9~107.9MHz	200kHz	200kHz	25kHz	10.700MHz/10.725MHz
	MW	530~1620kHz	10kHz	10kHz	10kHz	450kHz
Japan	FM	76.1~89.9MHz	100kHz	100kHz	25kHz	-10.700MHz/-10.675MHz
	MW	522~1629kHz	9kHz	9kHz	9kHz	450kHz
Europe	FM	87.50~108.00MHz	25kHz	50kHz	25kHz	10.700MHz/10.725MHz
	MW	522~1611kHz	9kHz	9kHz	9kHz	450kHz/459kHz
	LW1	155~281kHz	1kHz	9kHz	1kHz	450kHz/459kHz
	LW2	153~279kHz	1kHz	9kHz	1kHz	450kHz/459kHz
South America	FM	87.50~108.00MHz	25kHz	50kHz	25kHz	-10.700MHz/-10.625MHz
	MW	522~1611kHz	9kHz	9kHz	9kHz	450kHz
Oceania	FM	87.5~108.0MHz	100kHz	100kHz	25kHz	10.700MHz/10.725MHz
	MW	531~1602kHz	9kHz	9kHz	9kHz	450kHz

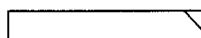
Note : The minimum frequency of each band is stored in each preset channel of other bands.

Key input matrix structure

Input	K ₃ (Pin 39)	K ₂ (Pin 40)	K ₁ (Pin 41)	K ₀ (Pin 42)
Output				
Sa (Pin 49)	UP	RADIO/POWER	ME	DOWN
Sb (Pin 48)	P-SCAN/A-MEMO	CLOCK	AUTO	SK
Sc (Pin 47)	BAND 1	BAND 2	BAND 3	BAND 4
Sd (Pin 46)	M1	M2	M3	M4
Se (Pin 45)	M5	M6	SEEK UP	ABSS
Sf (Pin 44)	OP 1	OP 2	OP 3	OP 4
Sg (Pin 43)	—	SENS	OP 4M	—
Sh (Pin 38)	BAND A	BAND B	BAND C	LW
Si (Pin 37)	IF	CLKSEL	POWSEL	PRIORITY
D ₁ (Pin 3)	DATA	SK	BAND D	5 ch/6 ch
D ₂ (Pin 2)	AD ₁	AD ₂	AD ₃	AD ₄



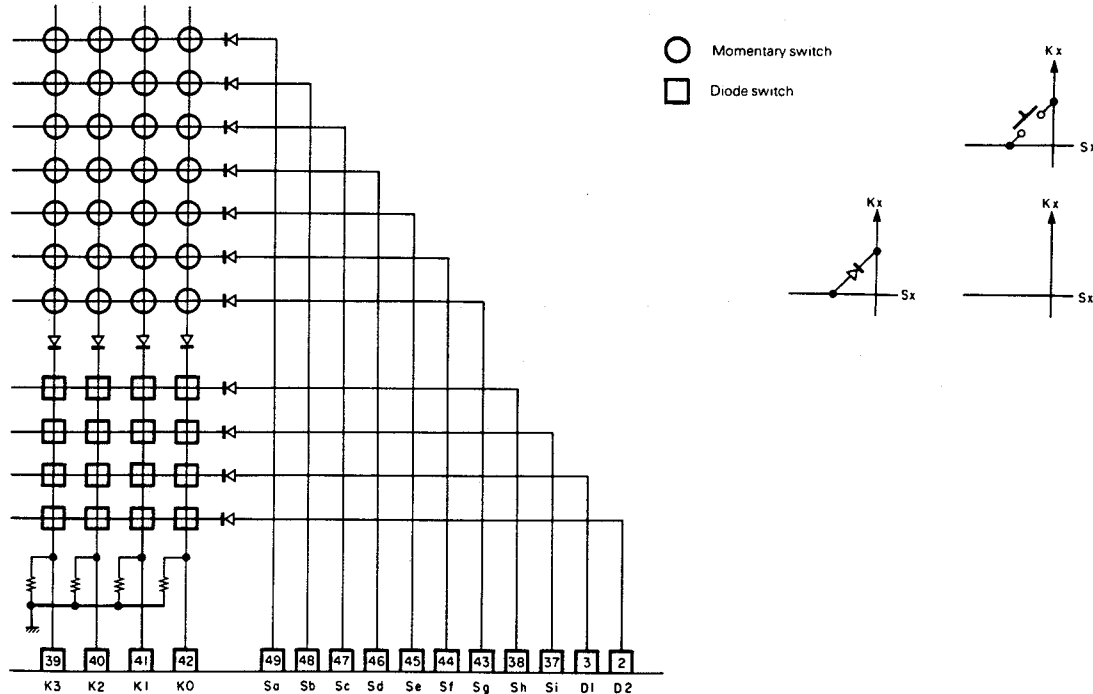
Momentary switch



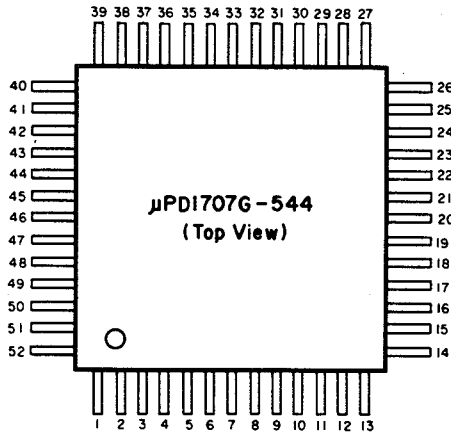
Diode matrix (short or open by diode)

CIRCUIT DESCRIPTION

Key matrix connections and switch formation



Synthesizer unit μ -com : μ PD1707G-544



Pin No.	Pin Name	Pin No.	Pin Name
1	D ₃	52	D ₄
2	D ₂	51	D ₅
3	D ₁	50	D ₆
4	CGP BZ	49	Sa
5	XO	48	Sb
6	XI	47	Sc
7	V _{DD1}	46	Sd
8	V _{DD2} (A/D)	45	Se
9	AD ₂ SD	44	Sf
10	AD ₁ SK·SD	43	Sg
11	AD ₀ AD	42	K ₀
12	GND ₃ (A/D)	41	K ₁
13	GND ₂ (PLL)	40	K ₂
14	— (NC)	39	K ₃
15	EO ₂	38	PD ₁ Sh
16	EO ₁	37	PD ₂ Si
17	CE	36	PD ₃ D7
18	FM	35	PA ₀ TAPE/RADIO
19	AM	34	PA ₁ OP1
20	PSC	33	V _{DD} *
21	GND ₁ (CPU)	32	PA ₂ /SI OP2/CE
22	PC ₃ MUTE	31	PA ₃ /SCR OP3/CLOCK
23	PC ₂ C·STBY/SKO	30	PB ₀ /SO AGC-CUT/DATA
24	PC ₁ RADIO, POWER ON/OFF	29	PB ₁ OLW
25	PC ₀ OP4	28	PB ₂ OMW
26	INT	27	PB ₃ OFM

* Internally connected to the 7 pin.

(NC: No Connection)

CIRCUIT DESCRIPTION

Diode switch

Symbol	Function																												
BAND A BAND B BAND C	< Switches for setting destination. > Destination is set through the following combinations: <table><tr><th>BAND A</th><th>BAND B</th><th>BAND C</th><th>Destination</th></tr><tr><td>0</td><td>0</td><td>0</td><td>USA</td></tr><tr><td>1</td><td>0</td><td>0</td><td>Japan</td></tr><tr><td>0</td><td>1</td><td>0</td><td>Europe 1</td></tr><tr><td>0</td><td>0</td><td>1</td><td>Europe 2</td></tr><tr><td>0</td><td>1</td><td>1</td><td>South Africa</td></tr><tr><td>1</td><td>0</td><td>1</td><td>Oceania</td></tr></table>	BAND A	BAND B	BAND C	Destination	0	0	0	USA	1	0	0	Japan	0	1	0	Europe 1	0	0	1	Europe 2	0	1	1	South Africa	1	0	1	Oceania
	BAND A	BAND B	BAND C	Destination																									
	0	0	0	USA																									
	1	0	0	Japan																									
0	1	0	Europe 1																										
0	0	1	Europe 2																										
0	1	1	South Africa																										
1	0	1	Oceania																										
LW	< Switch for selecting LW reception frequency range when Europe 1 is selected. > The stop frequency during auto tuning also changes. <table><tr><th>LW</th><th>Reception Frequency Range</th><th>Stop Frequency</th></tr><tr><td>0</td><td>155 ~ 281 kHz</td><td>9N+2</td></tr><tr><td>1</td><td>153 ~ 279 kHz</td><td>9N</td></tr></table> Ex. of Stop Frequency When seeking up from 155 kHz 9N+2 9 kup 9 kup 155 kHz → 164 kHz → 173 kHz ----> 9N 7 kup 9 kup 155 kHz → 162 kHz → 171 kHz ---->	LW	Reception Frequency Range	Stop Frequency	0	155 ~ 281 kHz	9N+2	1	153 ~ 279 kHz	9N																			
	LW	Reception Frequency Range	Stop Frequency																										
	0	155 ~ 281 kHz	9N+2																										
	1	153 ~ 279 kHz	9N																										
IF	< Switch for setting FM IF and European model MW, LW IF. > IF is set as follows, depending on the setting of this switch: <table><tr><th>IF</th><th>USA, Europe, Oceania FM IF</th><th>Japan, S. Africa FM IF</th><th>Europe MW IF</th></tr><tr><td>0</td><td>10,700 MHz</td><td>— 10,700 MHz</td><td>450 kHz</td></tr><tr><td>1</td><td>10,725 MHz</td><td>— 10,675 MHz</td><td>459 kHz</td></tr></table> The USA, Japan, S. Africa, and Oceania MW IF is fixed at 450 kHz, regardless of this switch.	IF	USA, Europe, Oceania FM IF	Japan, S. Africa FM IF	Europe MW IF	0	10,700 MHz	— 10,700 MHz	450 kHz	1	10,725 MHz	— 10,675 MHz	459 kHz																
	IF	USA, Europe, Oceania FM IF	Japan, S. Africa FM IF	Europe MW IF																									
	0	10,700 MHz	— 10,700 MHz	450 kHz																									
	1	10,725 MHz	— 10,675 MHz	459 kHz																									
CLKSEL	< Switch for clock selection. > OFF: Clock ON: No clock When there is a clock, the 12-hour setting or 24-hour setting is determined by the destination. 12-hour display: All destinations except Europe 24-hour display: Europe																												
	PRIORITY	< Switch for setting clock display priority mode when there is a clock mode. > OFF: No priority display ON: Clock display priority																											
		BAND D	< Switch for selecting 4-key method, 2-key method, or 1-key method for the band selection keys Band 1—4. > OFF: 4-key method When this switch is OFF, each of the four band selection keys will correspond to one band, and reception will be as follows when the different keys are pressed. <table><tr><th>Destination</th><th>Corresponding key</th><th>BAND 1</th><th>BAND 2</th><th>BAND 3</th><th>BAND 4</th></tr><tr><td>USA, Europe 2</td><td rowspan="3">FM 1</td><td rowspan="3">FM 2</td><td>FM3</td><td>MW</td></tr><tr><td>Japan, S. Africa, Oceania</td><td>MW 1</td><td>MW 2</td></tr><tr><td>Europe 1</td><td>MW</td><td>LW</td></tr></table>	Destination	Corresponding key	BAND 1	BAND 2	BAND 3	BAND 4	USA, Europe 2	FM 1	FM 2	FM3	MW	Japan, S. Africa, Oceania	MW 1	MW 2	Europe 1	MW	LW									
			Destination	Corresponding key	BAND 1	BAND 2	BAND 3	BAND 4																					
USA, Europe 2			FM 1	FM 2	FM3	MW																							
Japan, S. Africa, Oceania	MW 1				MW 2																								
Europe 1	MW	LW																											

CIRCUIT DESCRIPTION

- **Tuning function**

- 1. Manual tuning (saw-wave mode)**

(remarks key UP/DWN DOWN)

Manual tuning is made by UP and DOWN keys while the AUTO key is OFF. Each time when either one of these keys is pressed, the frequency is UP or DOWN by one step. When a key is kept pressed for 0.5 second or longer, quick feed is made at a speed of about 60ms~110ms per step until the key is released.

- 2. Auto tuning (saw-wave mode)**

(remarks by key UP/DOWN, SEEK UP)

Auto tuning is made by SEEK UP key or by UP and DOWN keys while AUTO key is ON. When a key is pressed, frequency UP/DOWN is made automatically. When a voltage that exceeds 2.539V is input to the SD terminal, it is regarded that waves are received from a broadcasting station, and this station is held. When this key is pressed again during search, movement stops at the frequency.

- 3. Preset memory (remarks key M1~M6)**

Write and read in/out of the preset memory are made using M1~M6 keys. FM1/FM2/FM3/MW1/MW2/LW independently correspond to each key, and it is possible to store six stations for each band (6 x 4 bands at maximum). Write is made while ME is ON, and read is made when ME is OFF.

- 4. Preset scan (remarks key P. SCAN/A. MEMO)**

Preset scan is made by P.SCAN/A.MEMO key while ME is OFF. When this key is pressed, the preset data is sequentially read beginning with the next memory, if started during preset receiving, or beginning with M1 in other cases. After a complete round, return to the initial preset channel (M1 if started at a time that is not during preset receiving) and a series of operation terminates. If this key is pressed again during the operation, the operation terminates at then preset.

- 5. Auto memory (remarks key P.SCAN/A.MEMO)**

Auto memory is accomplished by P.SCAN/A.MEMO key while ME is ON. When this key is pressed, search for a station is made beginning with M1 in the UP direction from the currently received frequency, and memory write is performed when a station is found. The operation terminates when memory write is completed up to M6 or when search of two rounds terminates. (The field intensities of receiving stations are different between the first round and the second round. See description of functions of keys for details.) If this key is pressed again during operation, the operation terminates with the then frequency and auto memory is cancelled.

- 6. ABSS (remarks key ABSS)**

UP SEEK is made when such a status that the currently receiving station is SD = Low is continued for 4 seconds while the ABSS key is ON, and this UP SEEK stops at a frequency of SD = High and A/D input voltage of Vb or higher.

- **Optional functions (remarks key OPT1~OPT4, OP4M)**

These functions switch High/Low of individually corresponding output ports each time when a key is pressed.

OPT1 permits switching commonly for TAPE/RADIO. OPT2 and OPT3 are valid only in the tape mode. They are mutually reset and there is no case where they are ON simultaneously. OPT4 key is pressed, MUTE is output for 750~875ms.

- **Clock function (remarks key CLOCK, ME, UP, DOWN)**

12-hour and 24-hour display clock function is provided. Switching to clock display can be made by pressing the CLOCK key during frequency display. Further, time adjustment can be made by the following method during clock display.

For adjustment of minute digits : Press ME and UP keys simultaneously.

For adjustment of hour digits : Press ME and DOWN keys simultaneously.

For adjustment, the display will change in the UP direction only by one minute or one hour each time when these keys are pressed. If keys are kept pressed for 0.5 second or longer, quick feed is made (once every 125ms for minute digits or 250ms for hour digits) until the keys are released.

CIRCUIT DESCRIPTION

Deck microcomputer (7508G(M)-814-00)

● Outline

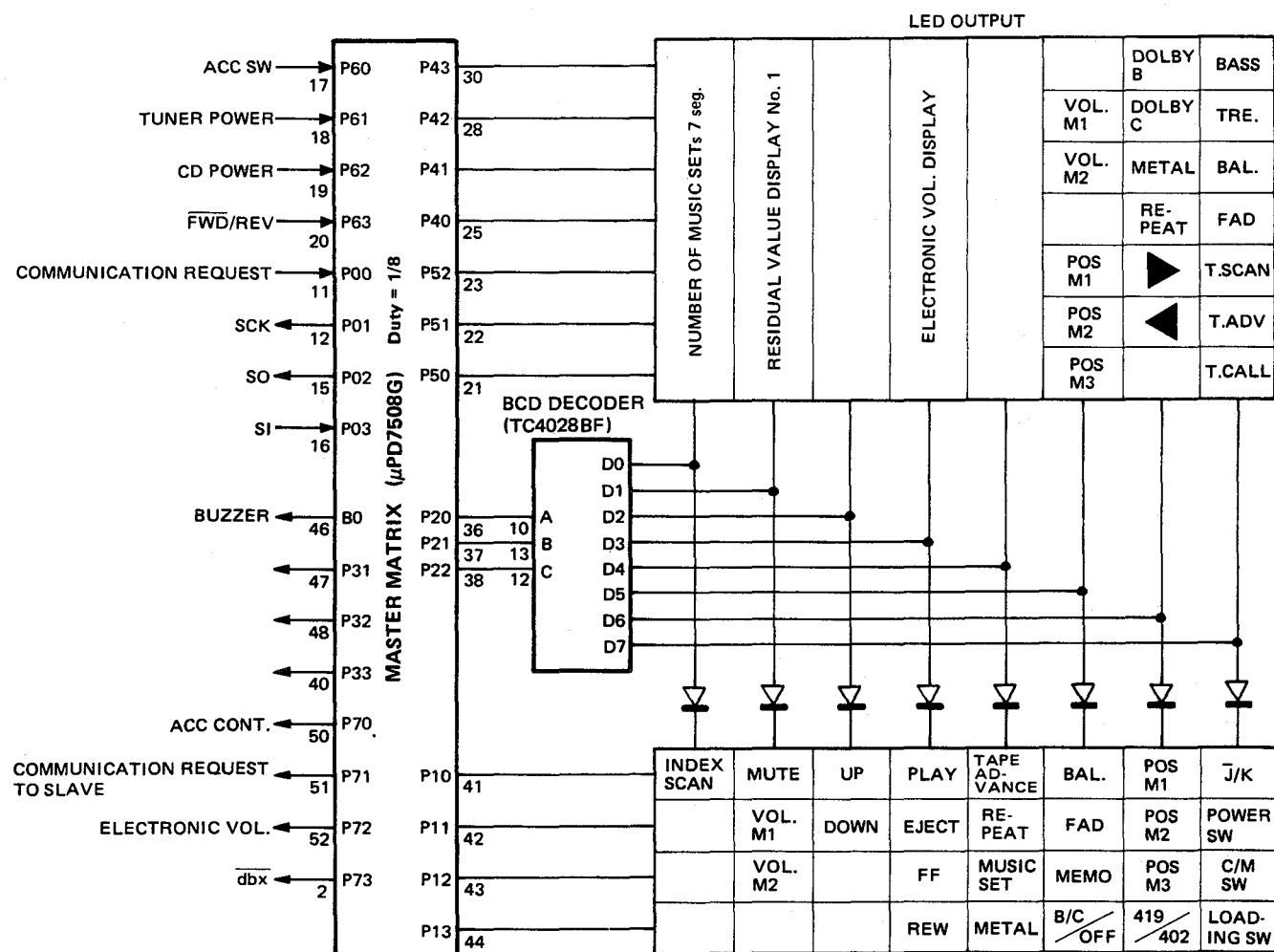
This microprocessor is used for controlling the car audio deck and is composed of twin (MASTER and SLAVE) CPUs.

As for roles of MASTER and SLAVE microcomputers, all keys, mechanical sensors and display related to the deck are assigned to the MASTER side, and the SLAVE side controls mechanisms in accordance with the data transmitted through serial data transmission.

● Principal functions

- Electronic VOL. data transmission : VOLUME, BALANCE, FADER, BASS, TREBLE
- Key entry : entry of all KEYs related to deck.
- LED display : ON/OFF of each mode, residual value, electronic VOL.
- Serial data transmission : Exchange of data with SLAVE side.

● Port assignment diagram for 7508G(M)-814-00



CIRCUIT DESCRIPTION

● Description of terminals

Terminal No.	Terminal name	I/O	ACTIVE H/L	Description of application
2	P73	O	L	dbX
11	P00	I	H	Communication request from SLAVE microprocessor.
12	P01/SCK	O	—	Serial data transmission clock using serial clock.
15	P02/SO	O	—	Data output for electronic VOL. to SLAVE microprocessor.
16	P03/SI	I	—	Data input from SLAVE microprocessor.
17	P60	I	H	ACC SW
18	P61	I	H	TUNER POWER
19	P62	I	H	CD POWER
20	P63	I		F/R
21	P50	O	H	Segment signal Sg.
22	P51	O	H	Segment signal Sf.
23	P52	O	H	Segment signal Se.
25	P40		H	Segment signal Sd.
26	P41	O	H	Segment signal Sc.
28	P42	O	H	Segment signal Sb.
30	P43	O	H	Segment signal Sa.
36	P20	O	H	Key scan signal to pin 10 of BCD DECODER (TC4028BF).
37	P21	O	H	Key scan signal to pin 13 of BCD DECODER (TC4028BF).
38	P22	O	H	Key scan signal to pin 12 of BCD DECODER (TC4028BF).
41	P10	I	H	Key return signal K0.
42	P11	I	H	Key return signal K1.
43	P12	I	H	Key return signal K2.
44	P13	I	H	Key return signal K3.
46	P30	O	H	BUZZER.
50	P70	O	H	ACC CONTROL.
51	P71	O	H	Communication request to SLAVE microprocessor.
52	P72	O	H	Electronic VOL. STROBE.

CIRCUIT DESCRIPTION

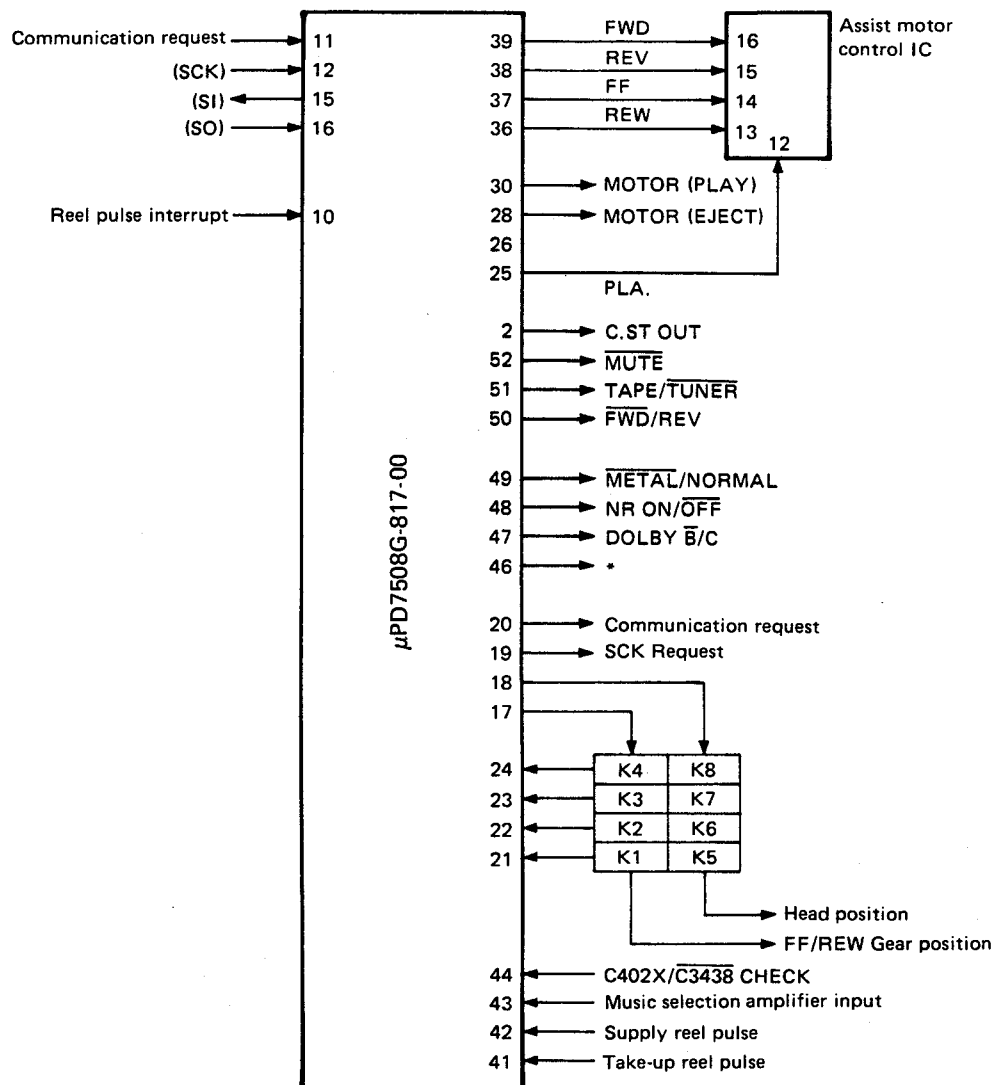
● Description of key operations

Key name	Acceptance of TAPE mode	Description of operation TAPE mode (including TUNER mode, TUNER OFF)	Acceptance of TUNER mode	Description of operation TUNER mode (TUNER ON)
MEMO	○	VOL display : VOL PRESET, POS display : POS PRESET flickering.	○	Same as in TAPE mode.
VOL. UP	○	VOL : UP, TONE : UP, BALANCE : RIGHT, FADER : REAR	○	Same as in TAPE mode.
VOL. DOWN	○	VOL : DOWN, TONE : DOWN BALANCE : LEFT, FADER : FRONT	○	Same as in TAPE mode.
VOL PRESET M1	○	−30dB at the time of initialization of volume PRESET No. 1	○	Same as in TAPE mode.
VOL.PRESET M2	○	−40dB at the time of initialization of volume PRESET No. 2	○	Same as in TAPE mode.
MUTE	○	VOLUME display : Flickering, 20dB DOWN.	○	Same as in TAPE mode.
BALANCE	○	Each VOL. DISPLAY : To BALANCE display.	○	Same as in TAPE mode.
FADER	○	Each VOL display : To FADER display	○	Same as in TAPE mode.
POSITION M1	○	−10dB on R side at the time of initia- lization of volume PRESET No. 1	○	Same as in TAPE mode.
POSITION M2	○	−10dB on L side at the time of initia- lization of volume PRESET No. 2.	○	Same as in TAPE mode.
POSITION M3	○	Center at the time of initialization of volume PRESET No. 3	○	Same as in TAPE mode.
B/C/OFF	○	B → C → OFF → B feed type	X	Inhibited, display is also OFF, DATA held.
METAL	○	METAL SELECT	X	Inhibited, display is also OFF, DATA held.
T. ADV	○	T. ADV is ON when SW is ON, one music automatically when ON.	X	inhibited, display is also OFF, DATA held.
REPEAT	○	ONE REPEAT endless	X	Inhibited, display is also OFF, DATA held.
INDEX SCAN	○	Endless	X	Inhibited, display is also OFF, DATA cleared.
MUSIC SET	○	Multiple number of musics is set when T. ADV is ON.	X	Inhibited, display is also OFF, DATA held.
PLAY/PROG	○	Cancellation and inversion of each mechanical mode, soft loading.	○	Same as in TAPE mode.
FF	○	Absolute FF, search at the time of T. ADV ON.	X	Inhibited.
REW	○	Absolute REW, search at the time of T. ADV ON.	X	Inhibited.
EJECT	○	From all operations to EJECT. PLAY is inhibited during EJECT.	X	Inhibited
LOADING	○	Judgement of pack in.	○	Same as in TAPE mode.
Cassette MUTE	○	Judgement of cassette insertion.	○	Same as in TAPE mode.
POWER SW	○	SW during loading	○	Same as in TAPE mode.

CIRCUIT DESCRIPTION

Slave microprocessor IC1 (μ PD7508G-817-00)

Port Assignment



CIRCUIT DESCRIPTION

Port assignment table

Note : "P60" refers to pin 17 and "61" refers to pin 18 in the descriptions in this table.

Terminal No.	Terminal name	Input/Output	ACTIVE H/L	Description
2	C.ST	O	H	C. ST OUT (TUNER POWER control signal)
10	Rotation DET. W	I	—	Reel pulse interrupt
11	M → S Communication request	I	H	Communication request (from master microprocessor IC4)
12	SCK	I	—	Serial data transfer clock (from master microprocessor IC4)
15	SO	O	—	Serial data (to master microprocessor IC4)
16	SI	I	—	Serial data (from master microprocessor IC4)
17	FF/REW Position DET.	O	L	K4~1 (FF/REW gear position) detection signal
18	Head position DET.	O	L	K8~5 (Head position) detection signal
19	S → M SCK Request	O	H	SCK Request signal (terminal for shift clock request output to master microprocessor IC4)
20	S → M Communication request	O	H	Communication request signal from this slave microprocessor to master microprocessor IC4)
21	Position DET. K1	I	H	K1 (P60 = L) and K5 (P61 = L) check
22	Position DET. K2	I	H	K2 (P60 = L) and K6 (P61 = L) check
23	Position DET. K3	I	H	K3 (P60 = L) and K7 (P61 = L) check
24	Position DET. K4	I	H	K4 (P60 = L) and K8 (P61 = L) check
25	T.ADV PL	O	H	Music selection plunger signal (which drives the T.ADV plunger)
28	MOTOR (EJECT)	O	H	Drives the main motor in EJECT direction, exclusive of pin 30.
30	MOTOR (PLAY)	O	H	Drives the main motor in PLAY direction, exclusive of pin 28.
36	REW	O	H	Moves the FF/REW gear position from the PLAY position toward the REW position, exclusive of pin 37.
37	FF	O	H	Moves the FF/REW gear position from the PLAY position toward the FF position, exclusive of pin 36.
38	REV	O	H	Moves the head position from the STOP position toward the REV position, exclusive of pin 39.
39	FWD	O	H	Moves the head position from the STOP position toward the FWD position, exclusive of pin 38.
41	Rotation DET. T	I	H	Detects the take-up reel pulse
42	Rotation DET. S	I	H	Detects the supply reel pulse.
43	Intervals between musics DET.	I	H	Input from the music selection amplifier (Interval between musics DET.)
44	NC	I	H	Software selection signal
47	B/C	O		DOLBY B/C switching signal, active "L" : B type, "H" : C type
48	NR ON/OFF	O		NR ON/OFF switching signal, active "H" : ON, "L" : OFF
49	METAL/NORMAL	O		METAL/NORMAL switching signal, active "L" : METAL, "H" : NORMAL.
50	F/R	O		FWD/REV switching signal, active "L" : FWD, "H" : REV
51	TUN/TAPE	O		TAPE/TUNER switching signal, active "L" : TUNER, "H" : TAPE
52	MUTE	O	L	MUTE

CIRCUIT DESCRIPTION

Mechanism control in Mode transition

When shifting from one mode to another, this unit controls the mechanism by driving the FWD/REV or FF/REW motor. For this purpose, IC1 determines its current mode by using the S807 on the FR drive gear and the S806 on the PLAY drive gear.

After finding in which mode the unit is, it drives the FWD/REV and FF/REW motors with the control signals from pins 36 through 39 of IC1 to shift the mechanism to the new mode. The right table lists the unit modes and the state of each of the related terminals.

Either of FF/REW or FWD/REV is detected depending on whether pin 17 or 18 of IC1 is "L"; when pin 17 is "L", the unit is in the FWD or REV mode. This detection is made in each program scan and the resultant data are used for the subsequent mode transition.

By lowering either pin 17 or 18 to "L", the current state of the S806 and S807 switches (this also allows a check on their function).

SYNTHESIZER UNIT (X14-2002-70)

Mode \ IC1 (pin)	K 1 (21)	K 2 (22)	K 3 (23)	K 4 (24)
REW or REV overrun	0	1	1	1
	Excess switch turn is detected.			
REW or REV	0	0	1	1
REW or REV STOP	1	0	1	1
STOP	1	0	0	1
FF or FWD STOP	1	1	0	1
FF or FWD	1	1	0	0
FF or FWD overrun	1	1	1	0
	Excess switch turn is detected.			

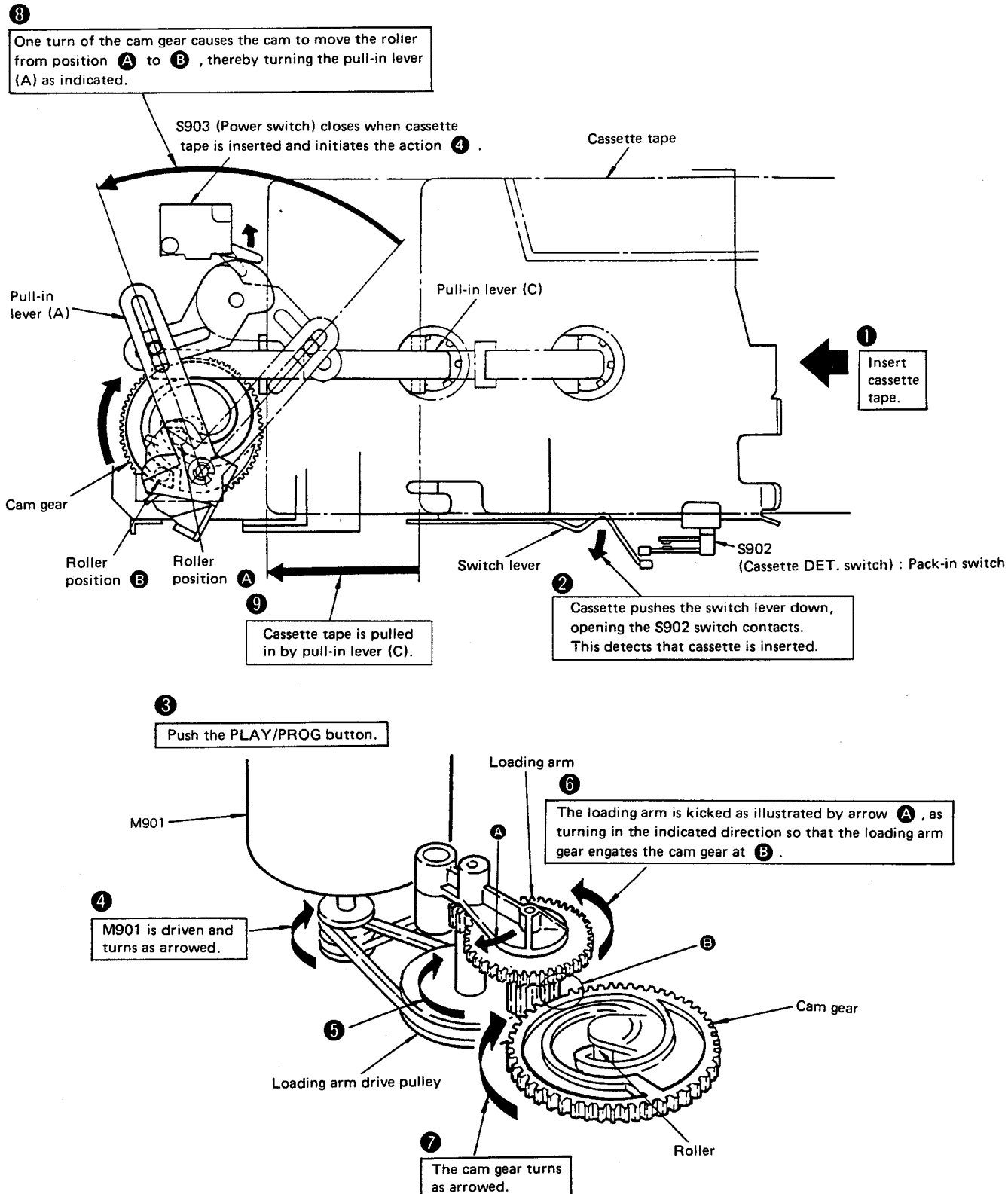
MECHANISM OPERATION DESCRIPTION

Loading Mechanism

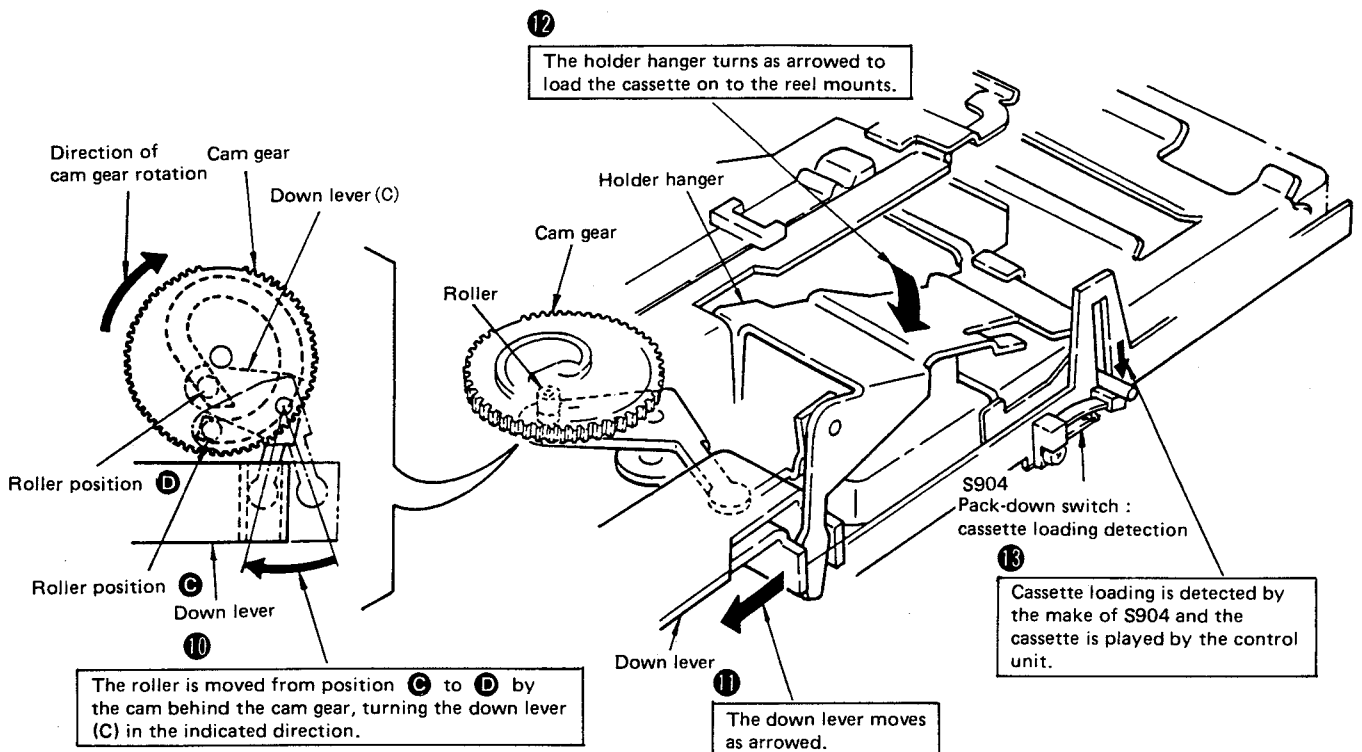
This mechanism provides an automatic cassette loading capability. That is, inserting a cassette into the entrance slit and then pushing the PLAY/PROG button (or softly push-

ing the cassette further in) causes it to be automatically loaded and played.

This function is described below.



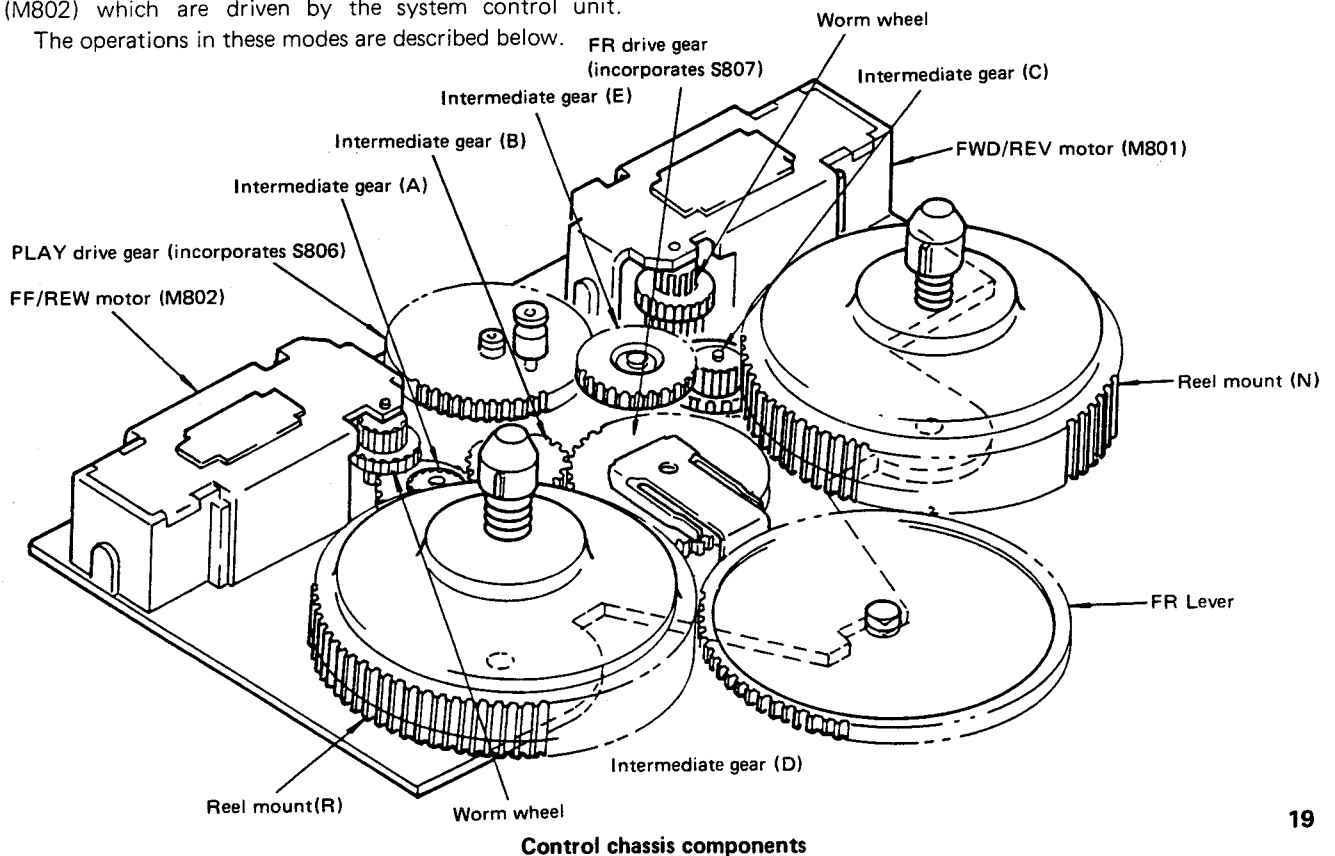
MECHANISM OPERATION DESCRIPTION



Mode Operations

This unit accomplishes switching between modes through the FWD/REV motor (M801) and FF/REW motor (M802) which are driven by the system control unit.

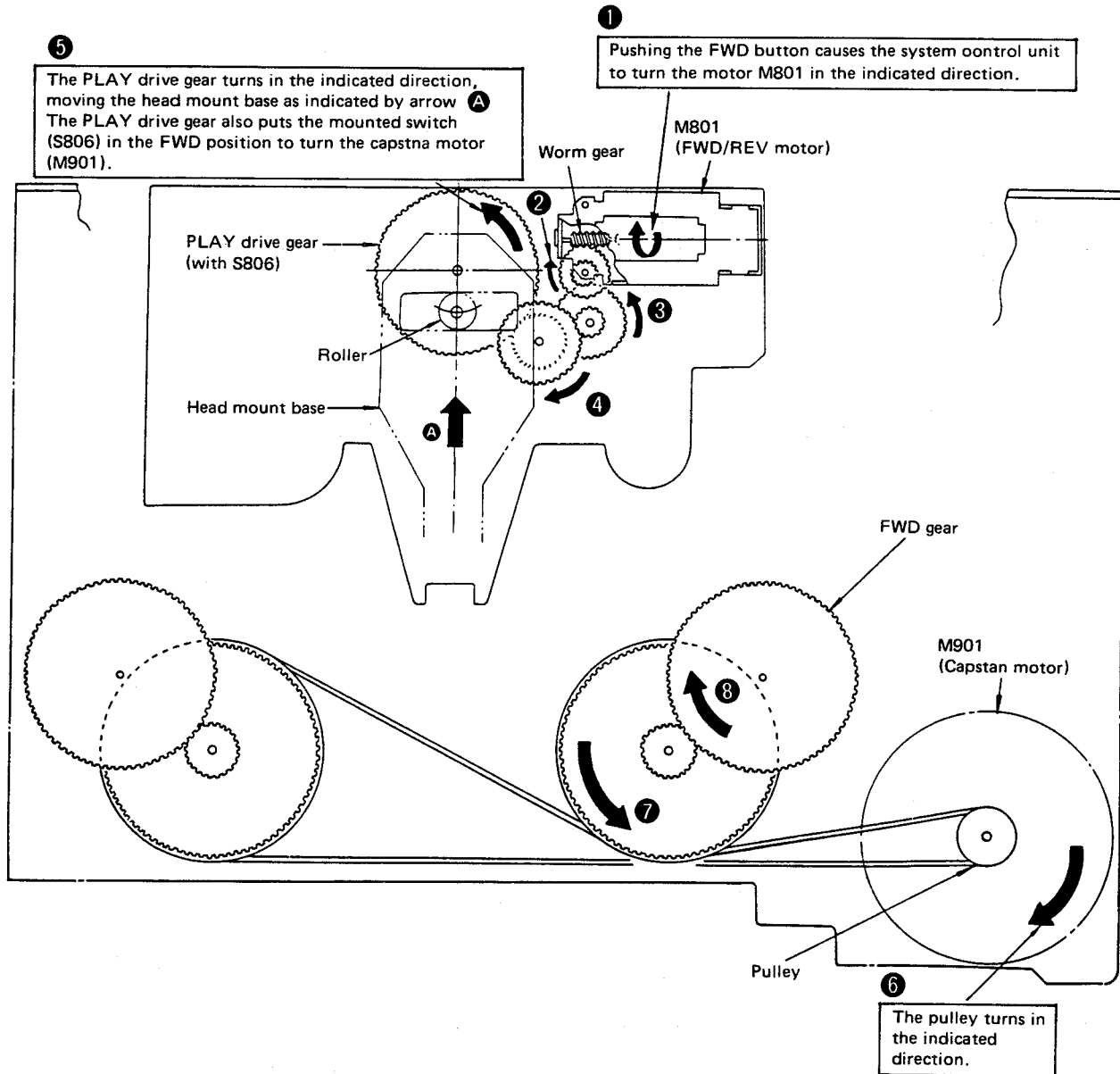
The operations in these modes are described below.



MECHANISM OPERATION DESCRIPTION

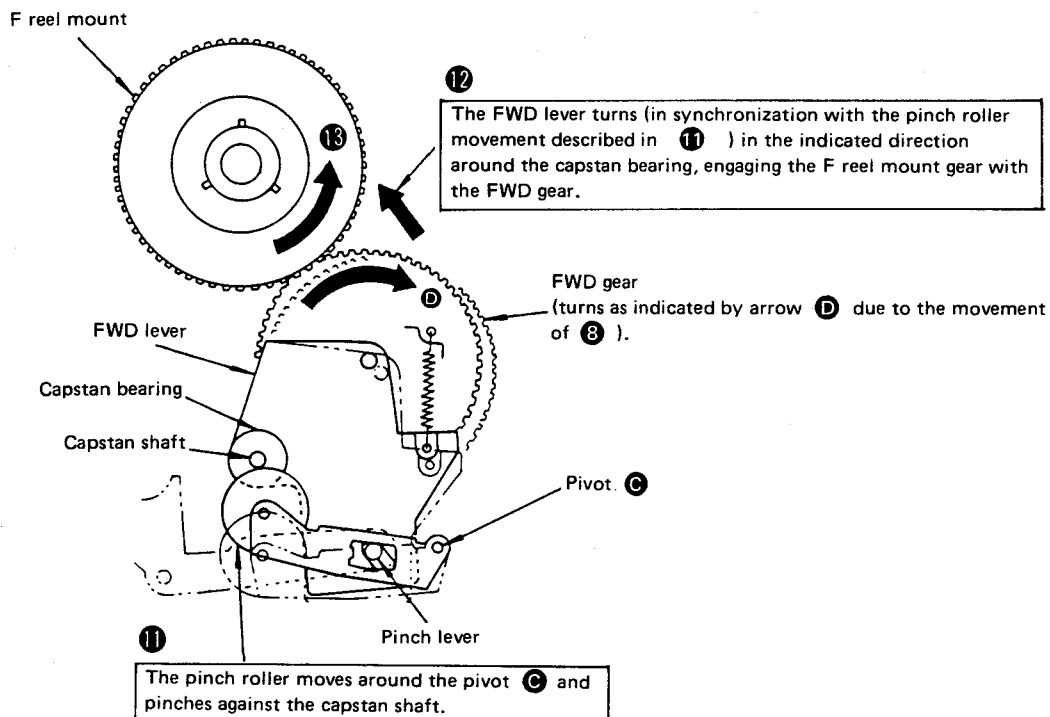
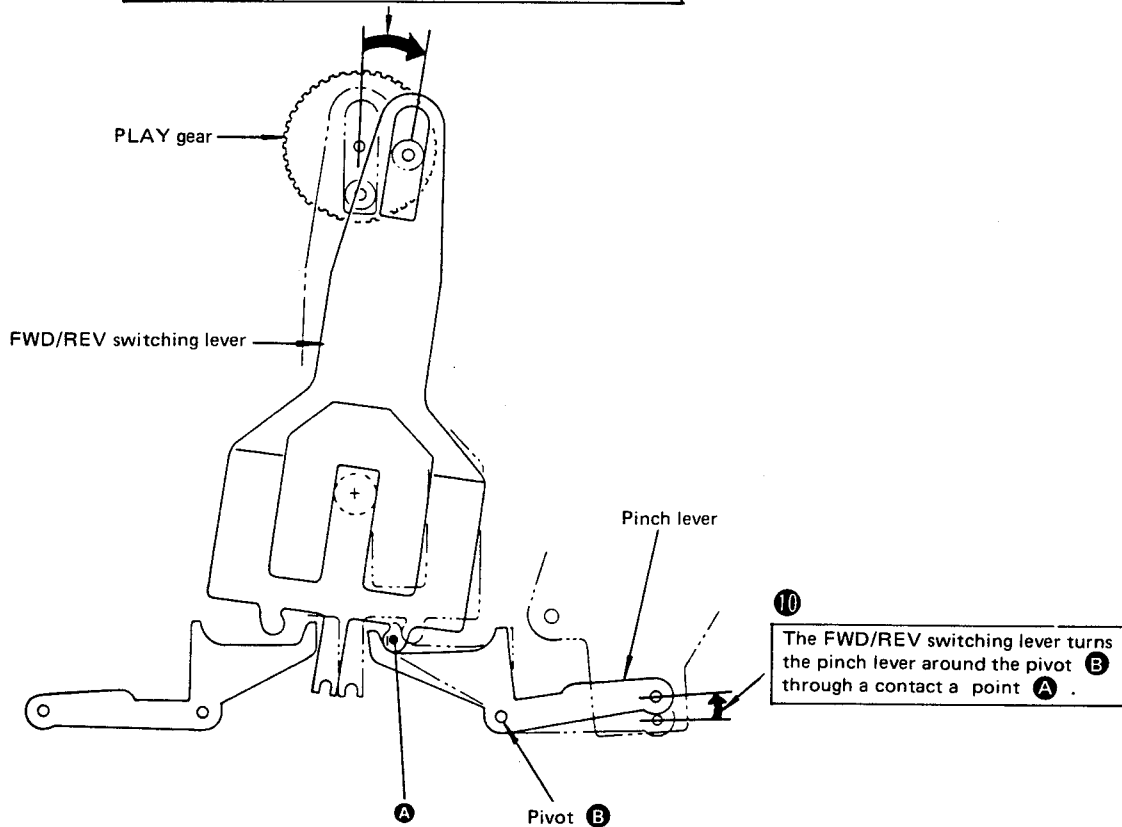
1. Forward (FWD) Mode

When this mode is entered, the mechanism operates in the sequence from ① to ⑬ in the following illustrations.



MECHANISM OPERATION DESCRIPTION

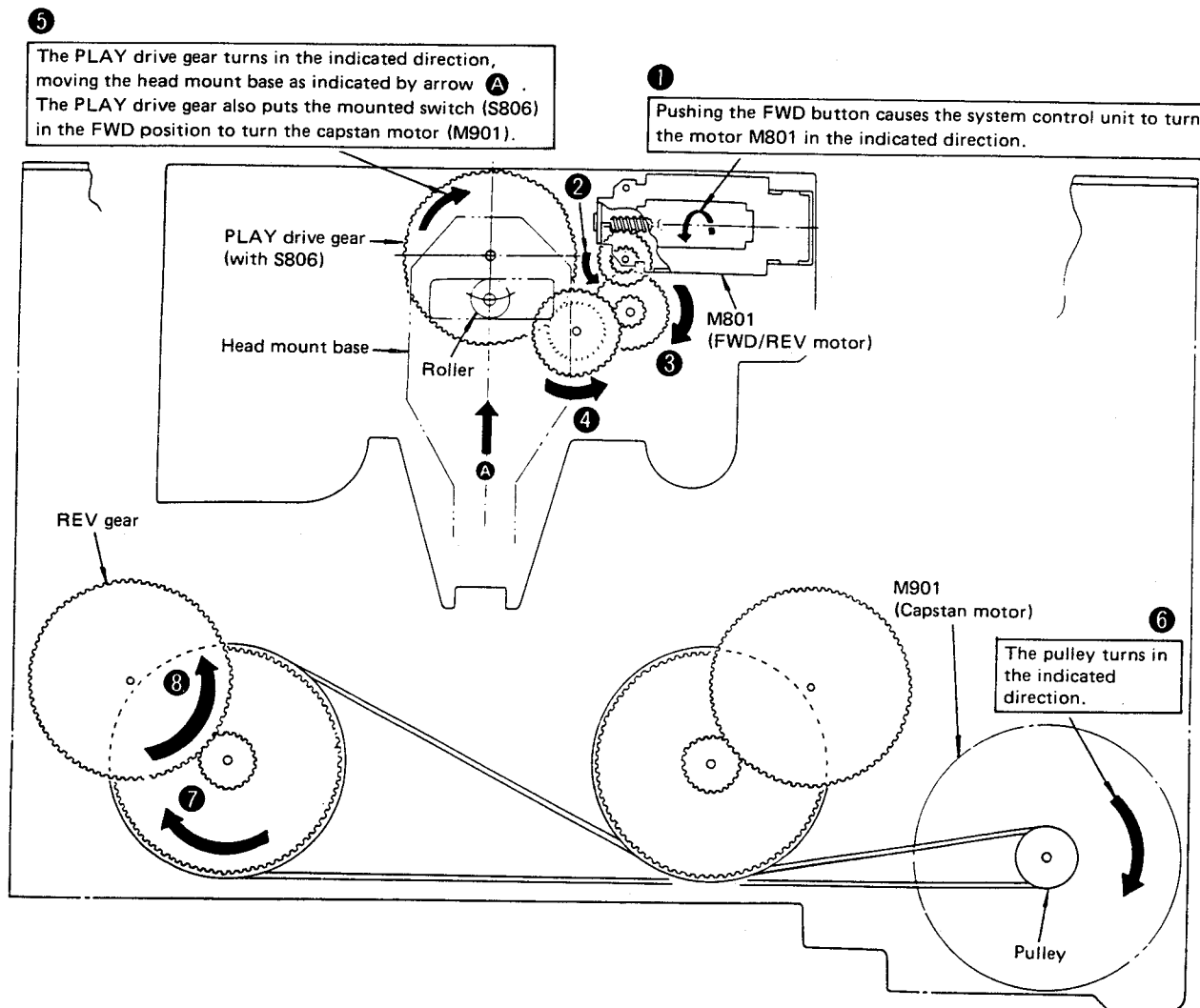
- 9 The PLAY drive gear turns the FWD/REV switching lever in the indicated direction through the movement described in 5 above.



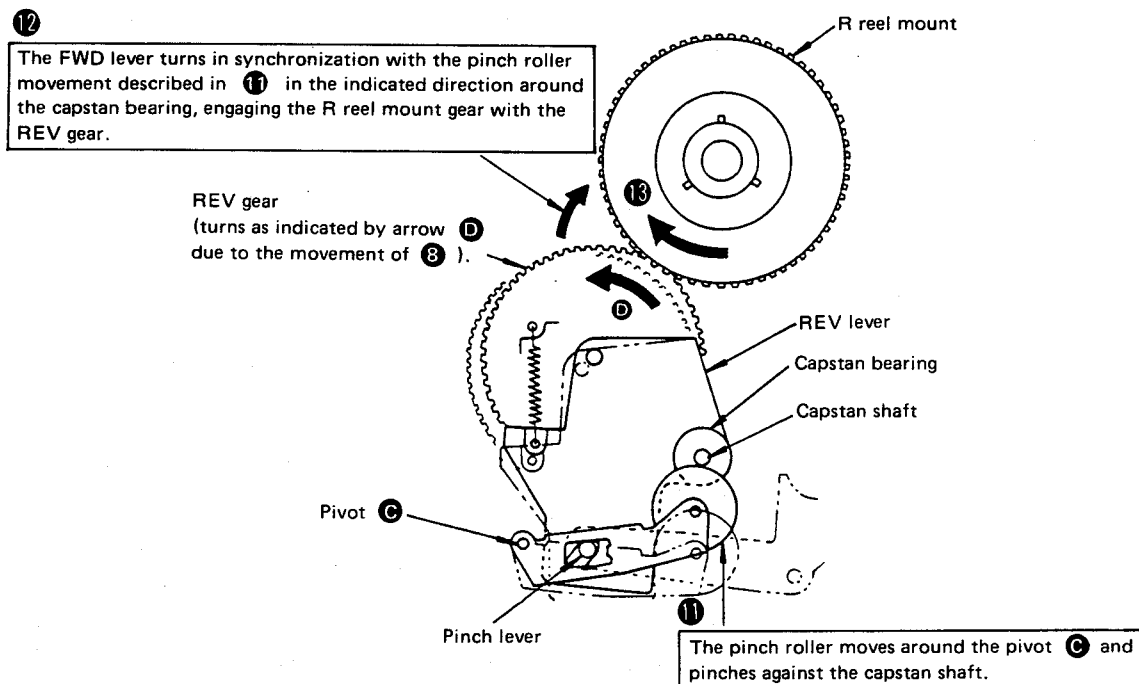
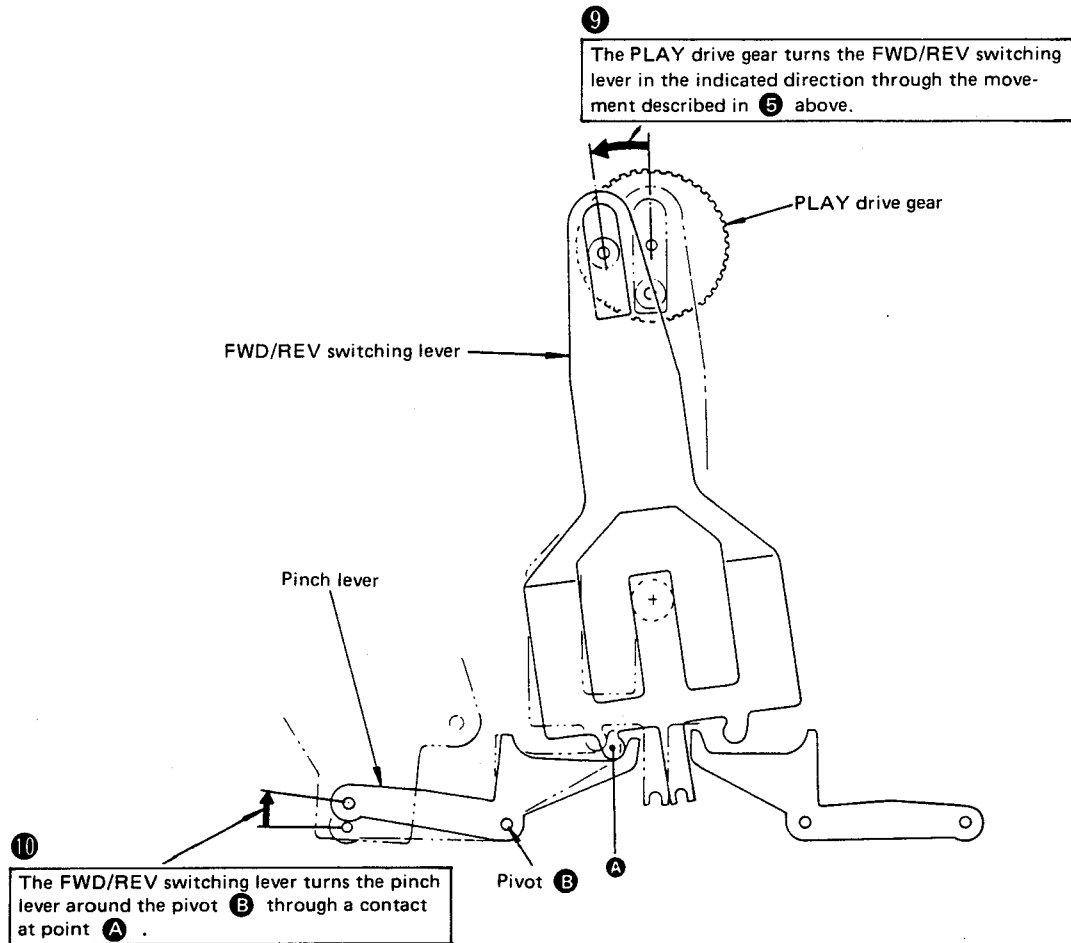
MECHANISM OPERATION DESCRIPTION

2. Reverse (REV) Mode

When this mode is entered, the mechanism operates in the sequence from ❶ to ❸ in the following illustrations.



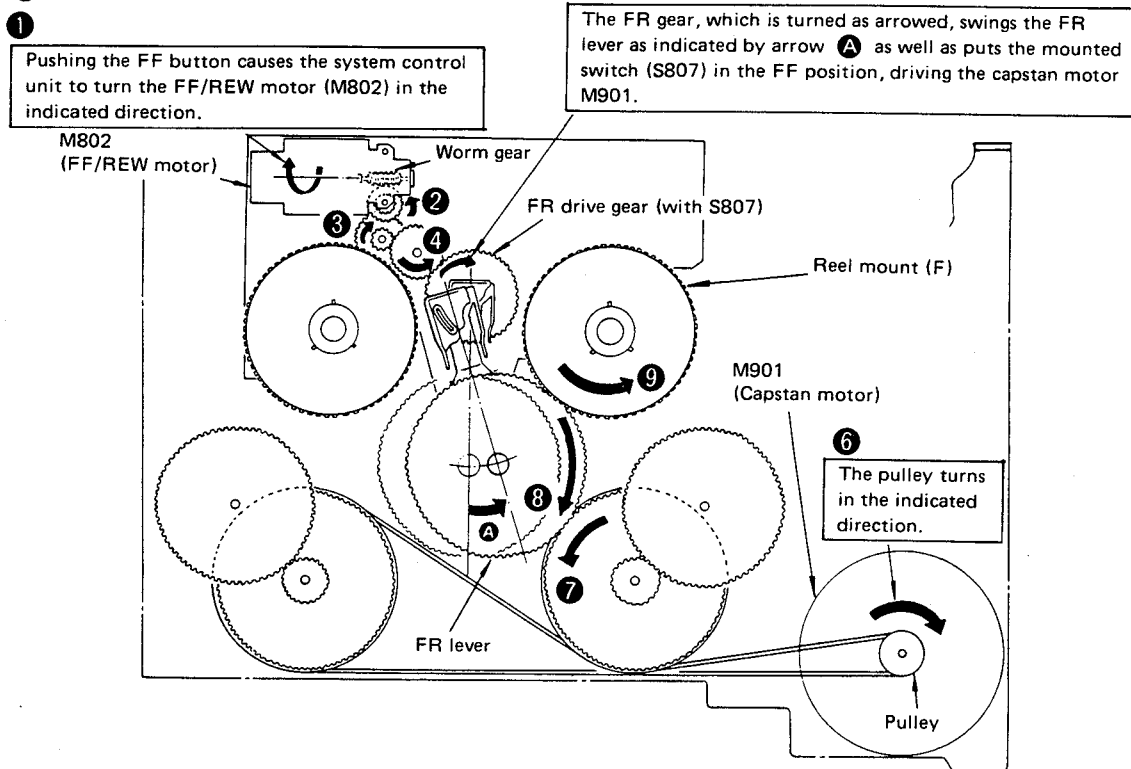
MECHANISM OPERATION DESCRIPTION



MECHANISM OPERATION DESCRIPTION

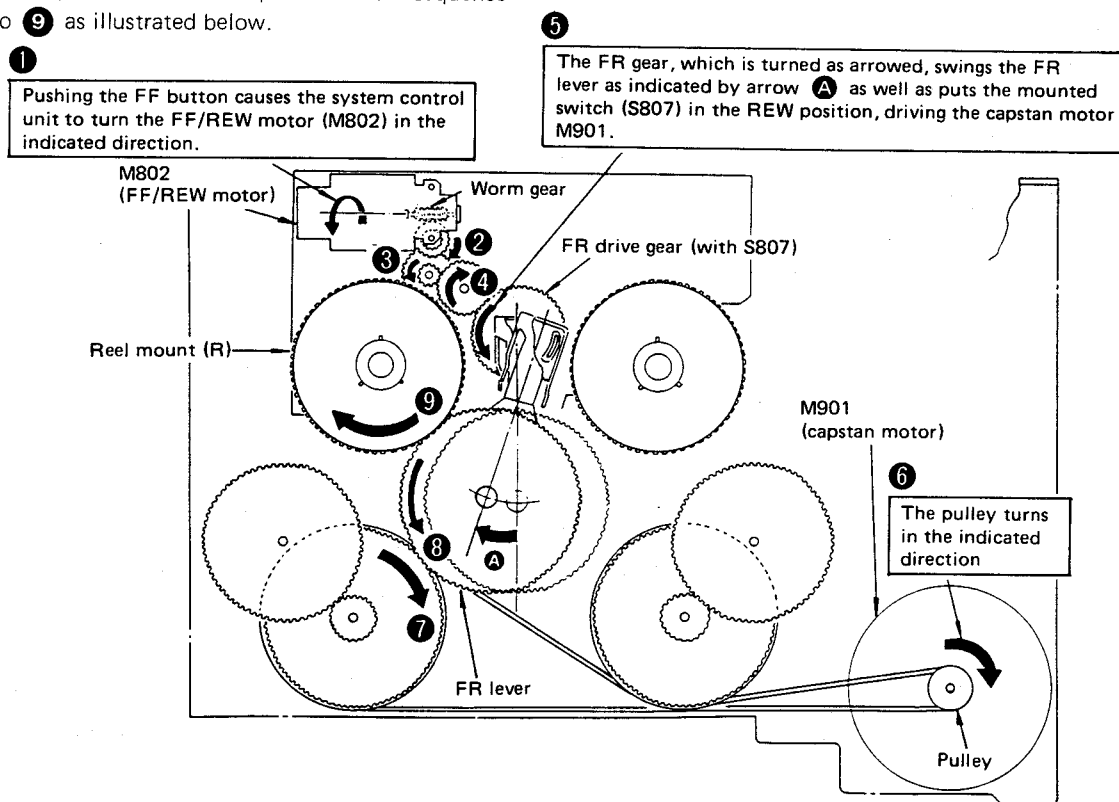
3. FF Mode (see page 30 for the description of T.ADV)

In this mode, the mechanism operates in the sequence from ① to ⑨ as illustrated below.



4. REW Mode (see page 30 for the description of T.ADV)

In this mode, the mechanism operates in the sequence from ① to ⑨ as illustrated below.



MECHANISM OPERATION DESCRIPTION

5. Tape Advance (T.ADV) Mode

Selecting either FF or REW mode while in PLAY mode causes a plunger (PM801) to put the unit in T.ADV mode.

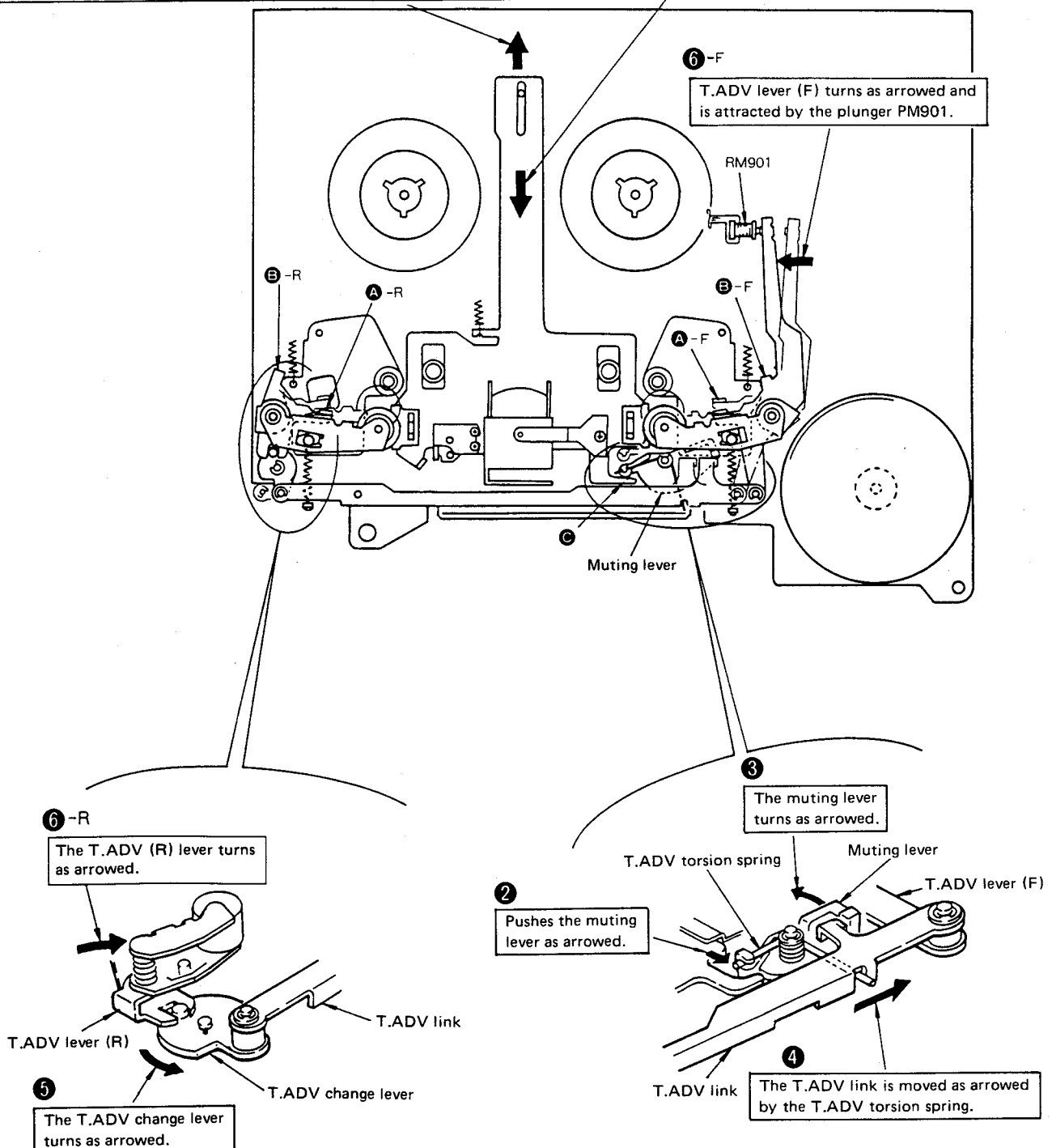
The sequence of events in this mode shift is described here.

⑦

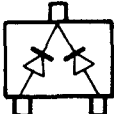
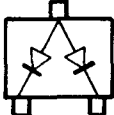
The FWD/REW motor is driven to put the unit in PLAY mode again, and the head mount base is moved in the indicated direction until point **C** hits the muting lever so that the head is placed at the T.ADV position. Further, faces **A** -F and R hold the pinch roller at the T.ADV position while faces **B** -F and R respectively hold the FWD and REV levers at the T.ADV position.

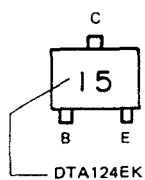
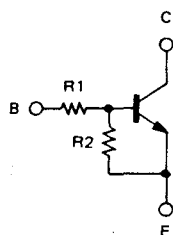
①

Pushing the FF or REW button while in PLAY mode turns the FWD/REV motor (M801) which pushes the head mount base via the PLAY gear roller.



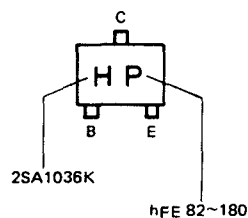
CLASSIFICATION OF CHIP PARTS

Digital transistor/デジトラ	Symbol/記号	R1	R2	Transistor/トランジスタ	Symbol/記号	Diode/ダイオード
DTA/DTC114EK	14/24	10k	10k	2SA1036K	H ☐	DAN202K Silver/シルバ
DTA/DTC114YK	54/64	10k	47k	2SA1037K	F ☐	
DTA/DTC114TK	94/04	10k	—	2SC2411K	C ☐	DAP202K Green/グリーン
DTA/DTC124EK	15/25	22k	22k	2SC2412K	B ☐	
DTA/DTC124XK	35/45	22k	47k	2SC2413K	A ☐	
DTA/DTC143EK	13/23	4.7k	4.7k	2SC2059K	J ☐	
DTA/DTC143TK	93/03	4.7k	—	2SC3082K	S ☐	
DTA/DTC144EK	16/26	47k	47k	2SB852K	U ☐	
DTA/DTC144WK	76/86	47k	22k	2SD1383K	W ☐	
DTA/DTC143XK	33/43	4.7k	10k	2SD1757K	AA ☐	
				2SD1328	ID ☐	
				2SC2412LN	L ☐	



hFE

M	: 39~ 82
N	: 56~ 120
P	: 82~ 180
Q	: 120~ 270
R	: 180~ 390
S	: 270~ 560
E	: 390~ 820
U	: 560~1200
A	: 1000~
B	: 5000~



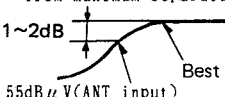
ADJUSTMENT

Set the controls and switches as follows.

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Set the controls and switches as follows:
BALANCE :center position      TUNING :AUTO      ABSS :OFF
FADER   :center position      T • ADV :OFF      LOCAL :OFF
BASS    :center position      METAL  :OFF       ATT  :OFF
TREBLE  :center position      DOLBY NR :OFF     Dbx  :OFF

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No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dB μ V(ANT input)	Connect a DC voltmeter to TP1. (X05-318)	FM 98.1MHz	T1 (X05-318)	0V	(a)
2	SEEK STOP LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 20dB μ V(ANT input)	—	FM SEEK:ON 98.1MHz	VR2 (X05-318)	STOP	
3	ANRC (1)	(C) 98.1MHz 1kHz, ± 40 kHz dev Selector:L or R Pilot: ± 6 kHz dev 60dB μ V(ANT input)	(B)	FM 98.1MHz	VR3 (X05-318)	Maximum separation.	
4	ANRC (2)	(C) 98.1MHz 1kHz, ± 40 kHz dev Selector:L or R Pilot: ± 6 kHz dev 55dB μ V(ANT input)	(B)	FM 98.1MHz	VR3 (X05-318)	Best point -1 or -2dB down from Maximum separation. 1~2dB  55dB μ V(ANT input)	
5	IF GAIN	(C) 98.1MHz 1kHz, ± 40 kHz dev Selector:L or R Pilot: ± 6 kHz dev 30dB μ V(ANT input)	(B)	FM 98.1MHz	VR1 (X05-318)	Separation 10dB	
6	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 60dB μ V $\rightarrow$ No input	(B)	FM 98.1MHz	VR5 (X05-318)	Output Noise level -25dB (When not add any signal to ANT terminal)	
7	SEPARATION	(C) 98.1MHz 1kHz, ± 40 kHz dev Selector:L or R Pilot: ± 6 kHz dev 60dB μ V(ANT input)	(B)	FM 98.1MHz	VR6 (X05-318)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
8	PILOT CANCELLER	(C) 98.1MHz 0 dev Pilot: ± 6 kHz dev 60dB μ V(ANT input)	(B)	FM 98.1MHz	VR7 (X05-318)	Minimum output	
9	S-METER	(A) 98.1MHz 40kHz dev 20dB μ V(ANT input)	—	FM 98.1MHz	VR3 (X14)	Light "2"	

Repeat alignment 3~5 several times.

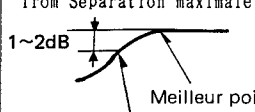
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
SDK SECTION							
(1)	DK SENSITIVITY	(E) 98.1MHz 1kHz, ± 40 kHz dev SK, 5.33% mod DK, 30% mod. BK SW OFF 60dB μ V (ANT input)	Connect a AC voltmeter to CN23. (X09)	98.1MHz SDK: OFF	VR5 (X09)	17mV AC	(b)
(2)	DK VCO	DK SW OFF BK SW OFF	Connect a frequency counter to CN24. (X09)	FM 98.1MHz SDK: ON	VR6 (X09)	125Hz	(c)
(3)	DK LEVEL	(E) 98.1MHz 1kHz, ± 40 kHz dev SK, 5.33% mod DK, 30% BK, 60% mod 60dB μ V (ANT input)	(B)	FM 98.1MHz VOLUME: 0 SDK: ON	VR7 (X09)	4mV	
AM SECTION							
< 1 >	STOP LEVEL	(D) 999kHz 400Hz, 30% mod 35dB μ V (ANT input)	—	AM 999kHz	VR2 (X14)	STOP	
< 2 >	S-METER	(D) 999kHz 400Hz, 30% mod 35dB μ V (ANT input)	—	AM 999kHz	VR1 (X14)	Light "2"	
CASSETTE DECK SECTION							
[1]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to CN22.	TAPE PLAY	VR2(L) VR1(R) (X09)	-3.5dBm (520mV)	(d)
[2]	AZIMUTH	MTT-216	(B)	TAPE PLAY	Head Azimuth Screw (D40-0341-05)	Adjust so that the output levels of the forward and reverse left and right channels are all maximum and identical.	(f)
[3]	dbx	MTT-150	Connect a DC voltmeter to CN21.	TAPE PLAY	VR3 (X09)	15mV	(e)

REGLAGE

Régler les contrôles et les boutons comme suit.

BALANCE	:position centre	TUNING	:AUTO	ABSS	:OFF
FDER	:position centre	T-ADV	:OFF	LOCAL	:OFF
BASS	:position centre	METAL	:OFF	ATT	:OFF
TREBLE	:position centre	DOLBY NR	:OFF	Dbx	:OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98,1MHz 0dév 60dBμV(Entrée ANT)	Connecter un voltmètre CC entre à TP1. (X05-318)	FM 98,1MHz	T1 (X05-318)	0V	(a)
2	NIVEAU DE CHERCHER D'ARRET	(A) 98,1MHz 1kHz.±40kHz dév 20dBμV(Entrée ANT)	—	FM CHERCHER: ON 98,1MHz	VR2 (X05-318)	ARRET	
3	ANRC (1)	(C) 98,1MHz 1kHz.±40kHz dév Selecteur: L ou R Pilote:±6kHz dév 60dBμV(Entrée ANT)	(B)	FM 98,1MHz	VR3 (X05-318)	Séparation maximale. Punkt meilleur	
4	ANRC (2)	(C) 98,1MHz 1kHz.±40kHz dév Selecteur: L ou R Pilote:±6kHz dév 55dBμV(Entrée ANT)	(B)	FM 98,1MHz	VR3 (X05-318)	-1 ou -2dB down from Séparation maximale.  55dBμV(Entrée ANT)	
5	GAIN FI	(C) 98,1MHz 1kHz.±40dB dév Selecteur: L ou R Pilote:±kHz dév 30dBμV(Entrée ANT)	(B)	FM 98,1MHz	VR1 (X05-318)	Séparation 10dB	
6	NIVEAU DE SOFT MUTE	(A) 98,1MHz 1kHz.±40kHz dév 60dBμV→Entrée No	(B)	FM 98,1MHz	VR5 (X05-318)	Bruit de niveau de sortie -25dB (Sous non correspondance d'antenne.)	
7	SEPARATION	(C) 98,1MHz 1kHz.±40kHz dév Selecteur: L ou R Pilote:±6kHz dév 60dBμV(Entrée ANT)	(B)	FM 98,1MHz	VR6 (X05-318)	Diaphone minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
8	SUPPRESSION DE SIGNAL PILOTE	(C) 98,1MHz 0dév Pilote:±6kHz dév 60dBμV(Entrée ANT)	(B)	FM 98,1MHz	VR7 (X05-318)	Sortie minimale	
9	INDICATEUR DE CHAMP	(A) 98,1MHz 40kHz dév 20dBμV(Entrée ANT)	—	FM 98,1MHz	VR3 (X14)	"2" Allume	
Répéter les point 3~5 plusieurs fois.							

REGLAGE

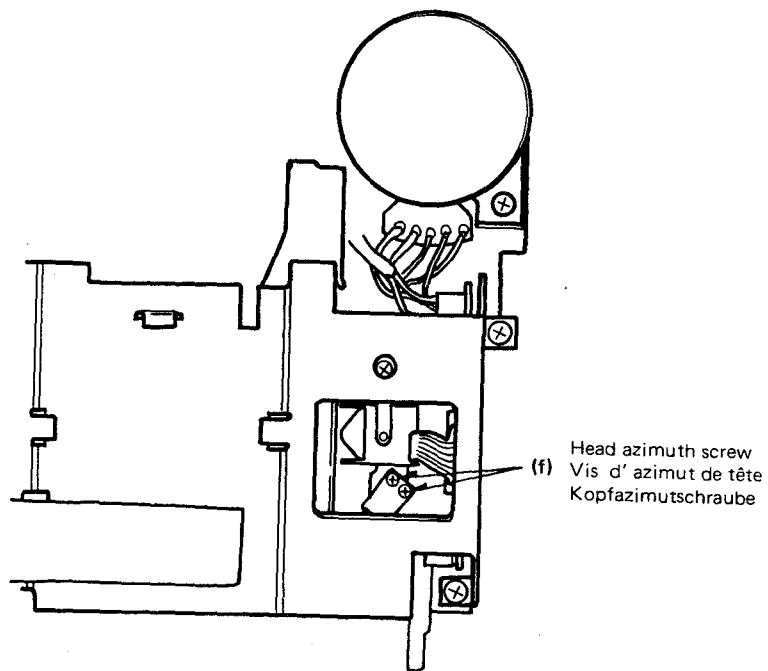
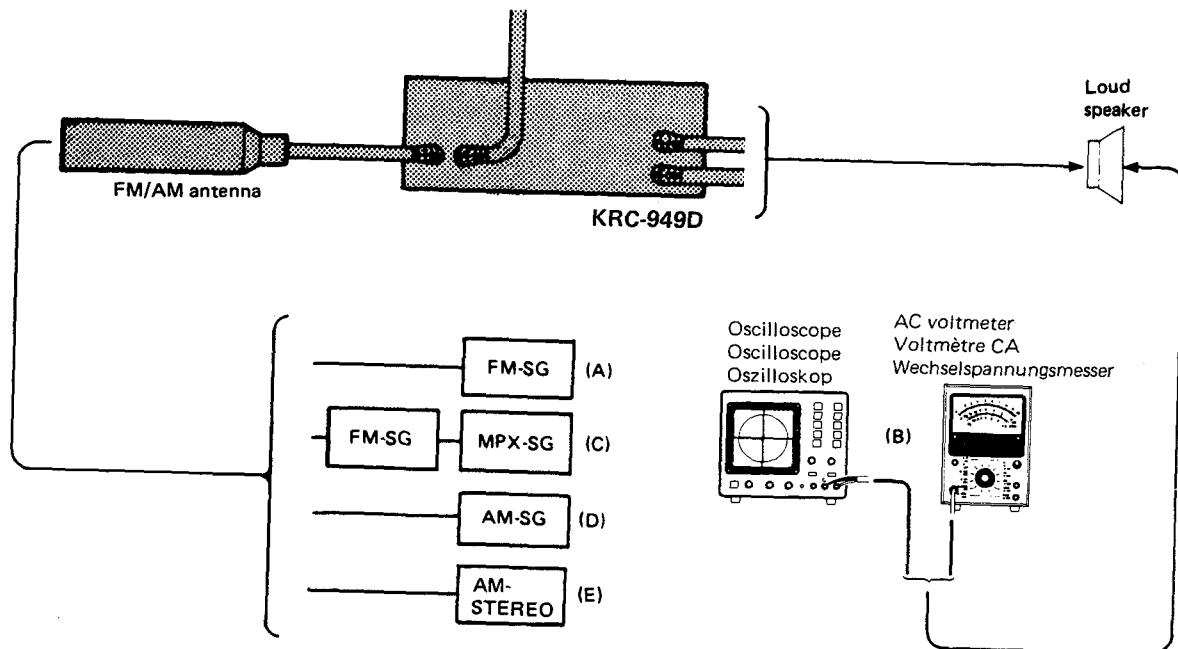
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION SDK							
(1)	SENSIBILITE DK	(E) 98.1MHz 1kHz.±40kHz dév SK.5.33% mod DK.30% mod OFF BK SW 60dBμV(Entrée ANT)	Connecter un voltmètre CA entre à CN23. (X09)	98.1MHz SDK:OFF	VR5 (X09)	CA 17mV	(b)
(2)	DK VCO	OFF DK SW OFF BK SW	Connecter un compteur de Fréquence à CN24. (X09)	FM 98.1MHz SDK:ON	VR6 (X09)	125Hz	(c)
(3)	NIVEAU DE DK	(E) 98.1MHz 1kHz.±40kHz dév SK.5.33% mod DK.30% BK.60%mod 60dBμV(Entrée ANT)	(B)	FM 98.1MHz VOLUME:0 SDK:ON	VR7 (X09)	4mV	
SECTION MA							
<1>	NIVEAU D'ARRET	(D) 999kHz 400Hz. 30% mod 35dBμV(Entrée ANT)	—	MA 999kHz	VR2 (X14)	ARRET	
<2>	INDICATEUR DE CHAMP	(D) 999kHz 400Hz. 30% mod 35dBμV(Entrée ANT)	—	MA 999kHz	VR1 (X14)	"2" Allume	
SECTION DU MAGNETPHONE							
[1]	NIVEAU DE LECTURE	MTT-150	Connect un voltmètre CA les CN22.	Lecture de bande	VR2(G) VR1(D) (X09)	-3.5dBm (520mV)	(d)
[2]	AZIMUTH	MTT-216	(B)	Lecture de bande	Vis d'azimut de tête (D40-0341-05)	Régler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marche-arrière de gauch et de droite soient tous au maximum et identiques.	(f)
[3]	dbx	MTT-150	Connect un voltmètre CC les CN21.	Lecture de bande	VR3 (X09)	15mV	(e)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
SDK-ABTEILUNG							
(1)	DK EMPFINDLICHKEIT	(E) 98,1MHz 1kHz.±40kHz Hub SK.5.33% mod DK.30% mod BK SW OFF 60dBμV(ANT-Eingang)	Einen Gleichspannungsmesser zu CN23. anschließen. (X09)	98,1MHz SDK:OFF	VR5 (X09)	17mV AC	(b)
(2)	DK VCO	DK SW OFF BK SW OFF	Einen Frequenzmesser zu CN24. anschließen. (X09)	FM 98,1MHz SDK:ON	VR6 (X09)	125Hz	(c)
(3)	DK PEGEL	(E) 98,1MHz 1kHz.±40kHz Hub SK.5.33% mod DK.30% BK.60%mod 60dBμV(ANT-Eingang)	(B)	FM 98,1MHz VOLUME:0 SDK:ON	VR7 (X09)	4mV	
MW-ABTEILUNG							
<1>	HALT PEGEL	(D) 999kHz 400Hz. 30% mod 35dBμV(ANT-Eingang)	—	MW 999kHz	VR2 (X14)	HALT	
<2>	AUZEIGE INSTRUMENT	(D) 999kHz 400Hz. 30% mod 35dBμV(ANT-Eingang)	—	MW 999kHz	VR1 (X14)	Einschalten "2"	
CASSETTEN-DECK-ABTEILUNG							
[1]	WIDERGABE PEGEL	MTT-150	Einen Wechselspannungsmesser zu CN22. anschließen.	Bandwiedergabe	VR2(L) VR1(R) (X09)	-3.5dBm (520mV)	(d)
[2]	AZIMUTH	MTT-216	(B)	Bandwiedergabe	Kopfazimutschraube (D40-0341-05)	So einstellen, daß die Ausgangspegel der linken und rechten Kanäle bei Rücklauf maximal und übereinstimmend sind.	(f)
[3]	dbx	MTT-150	Einen Wechselspannungsmesser zu CN21. anschließen.	Bandwiedergabe	VR3 (X09)	15mV	(e)

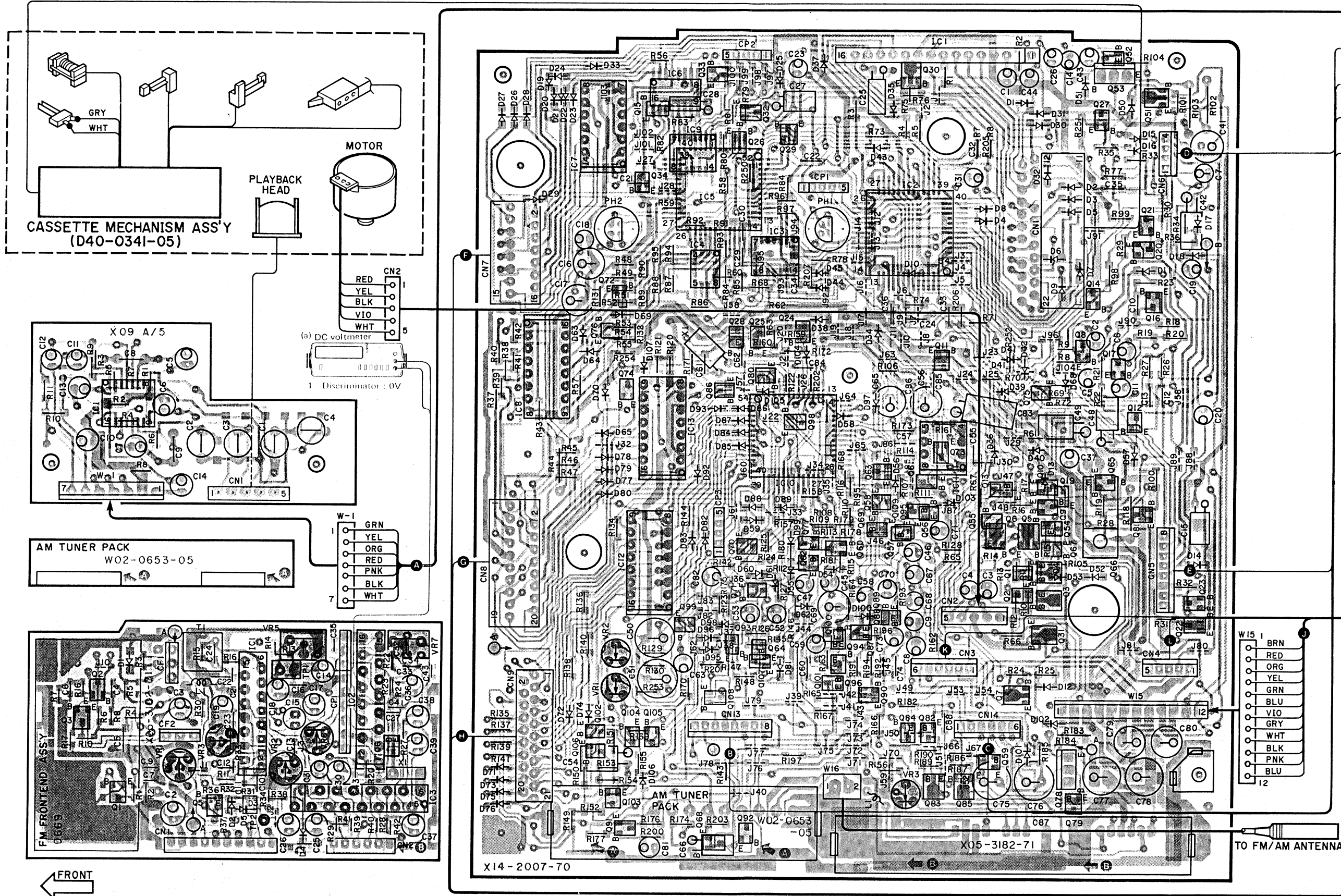
ADJUSTMENT/REGLAGE/ABGLEICH

SYSTEM CONNECTIONS



KRC-949D

PC BOARD (COMPONENT SIDE VIEW)



(X05-3182-71)

IC1	
1~3	3V
9	4.8V
10	4.5V
11	1.9V
12	9V
13	4.7V
14,15	2.3V
16	2.4V

IC2

1	8.5V
2	3.4V
3,4	4.6V
5	4.1V
6	4.2V
7	4.8V
9	1.5V
10,11	2.8V
12	2.1V
13	6.4V
14	0.1V
15,16	4.5V

IC3

1	8.5V
2	1.6V
3	3.5V
4	1.4V
5,6	3.8V
11,12	2.7V
13	1.2V
14,15	2.7V
16	3.5V

(X09-2342-70)

IC1	
1	9V
2	3V
7	3V
9	3V
11	3V
13	3V
16	3V

(X14-2002-70)

IC1

1	4.4V
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IC2,IC5

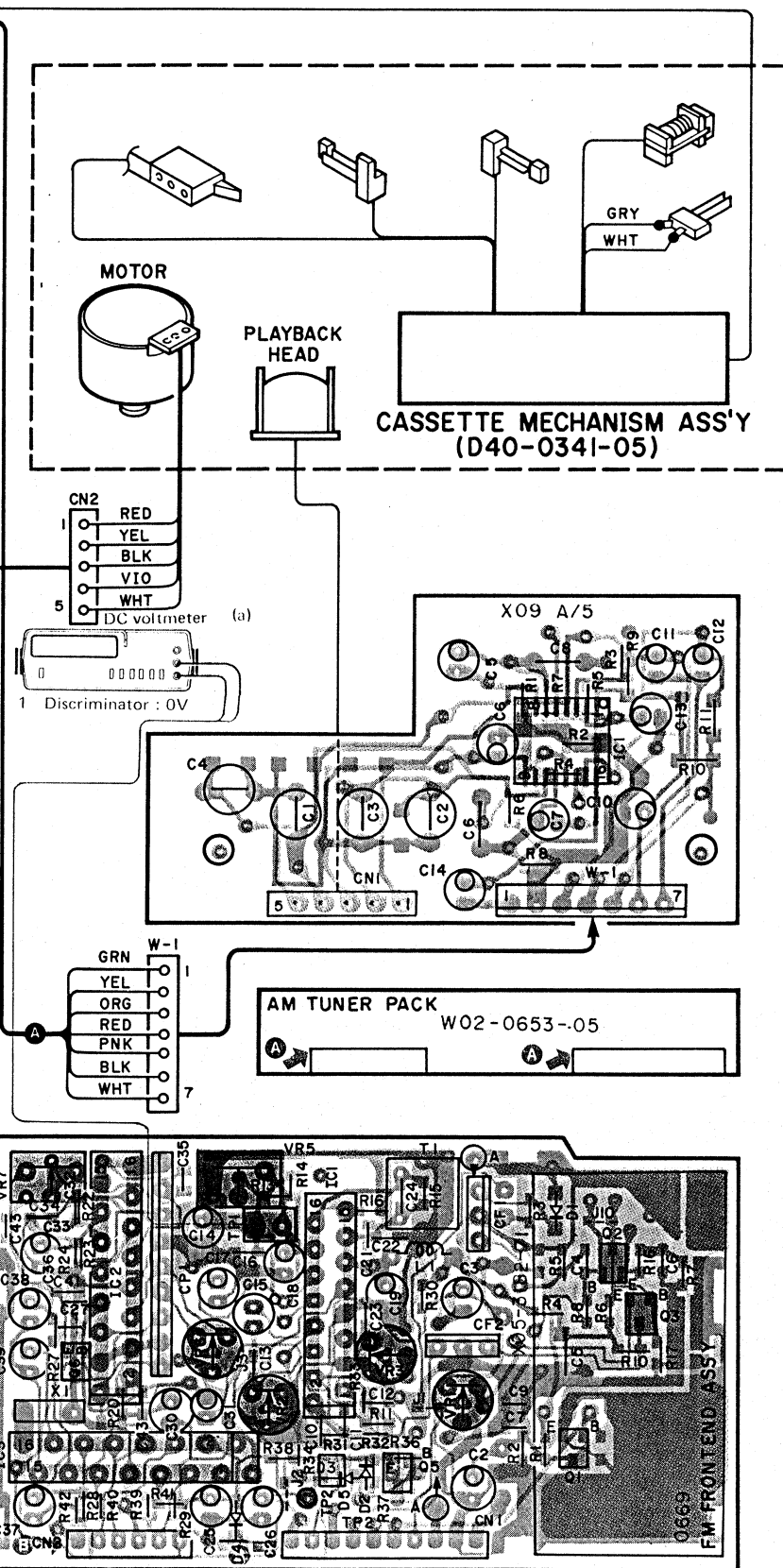
7	5V
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IC6

16	5V
----	----

	B	C	E
Q4	-	-	14.4V
Q65	8.2V	-	-
Q66	-	7.5V	-

Refer to the schematic diagram for the values of resistors and capacitors.



1~3	3V
9	4.8V
10	4.5V
11	1.9V
12	9V
13	4.7V
14,15	2.3V
16	2.4V

IC2	
1	8.5V
2	3.4V
3,4	4.6V
5	4.1V
6	4.2V
7	4.8V
9	1.5V
10,11	2.8V
12	2.1V
13	6.4V
14	0.1V
15,16	4.5V

IC3

1	8.5V
2	1.6V
3	3.5V
4	1.4V
5,6	3.8V
11,12	2.7V
13	1.2V
14,15	2.7V
16	3.5V

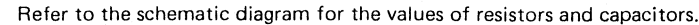
IC1	
1	9V
2	3V
7	3V
9	3V
11	3V
13	3V
16	3V

IC1	
1	4.4V

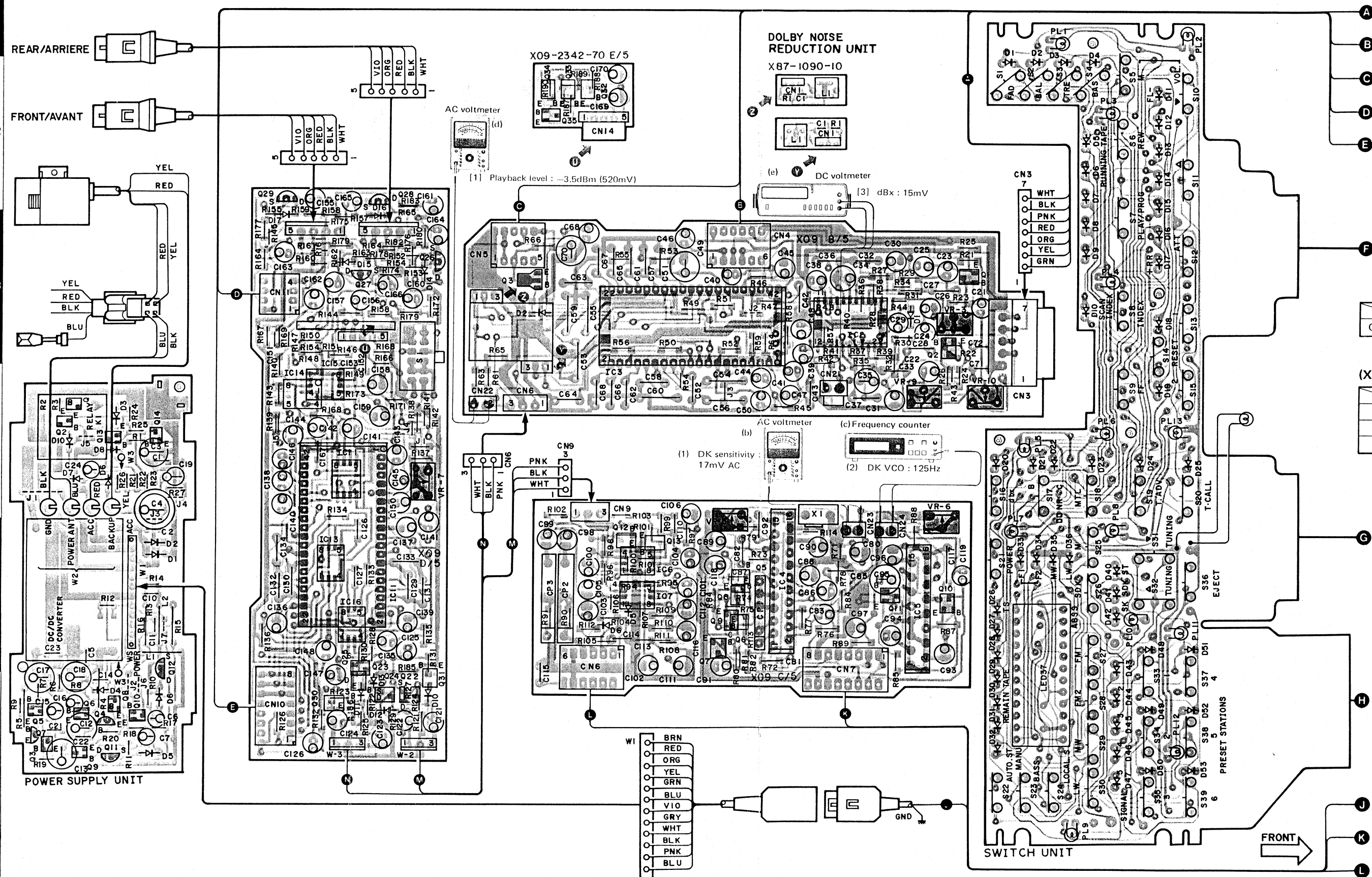
IC2, IC5	
7	5V

16	5V
----	----

	B	C	E
Q4	—	—	14.4V
Q65	8.2V	—	—
Q66	—	7.5V	—



PC BOARD (FOIL SIDE VIEW)



(X09-2342-70)

IC2

22	5V
----	----

IC3

4	9.4V
5,6	4.5V
8	4.5V
11	4.5V
32	4.5V
37,38	4.5V

IC12~IC15

1~3	0V
5~7	0V

IC16

3	0V
5,6	0V

	B	C	E
Q1, Q2	2.2V	—	—

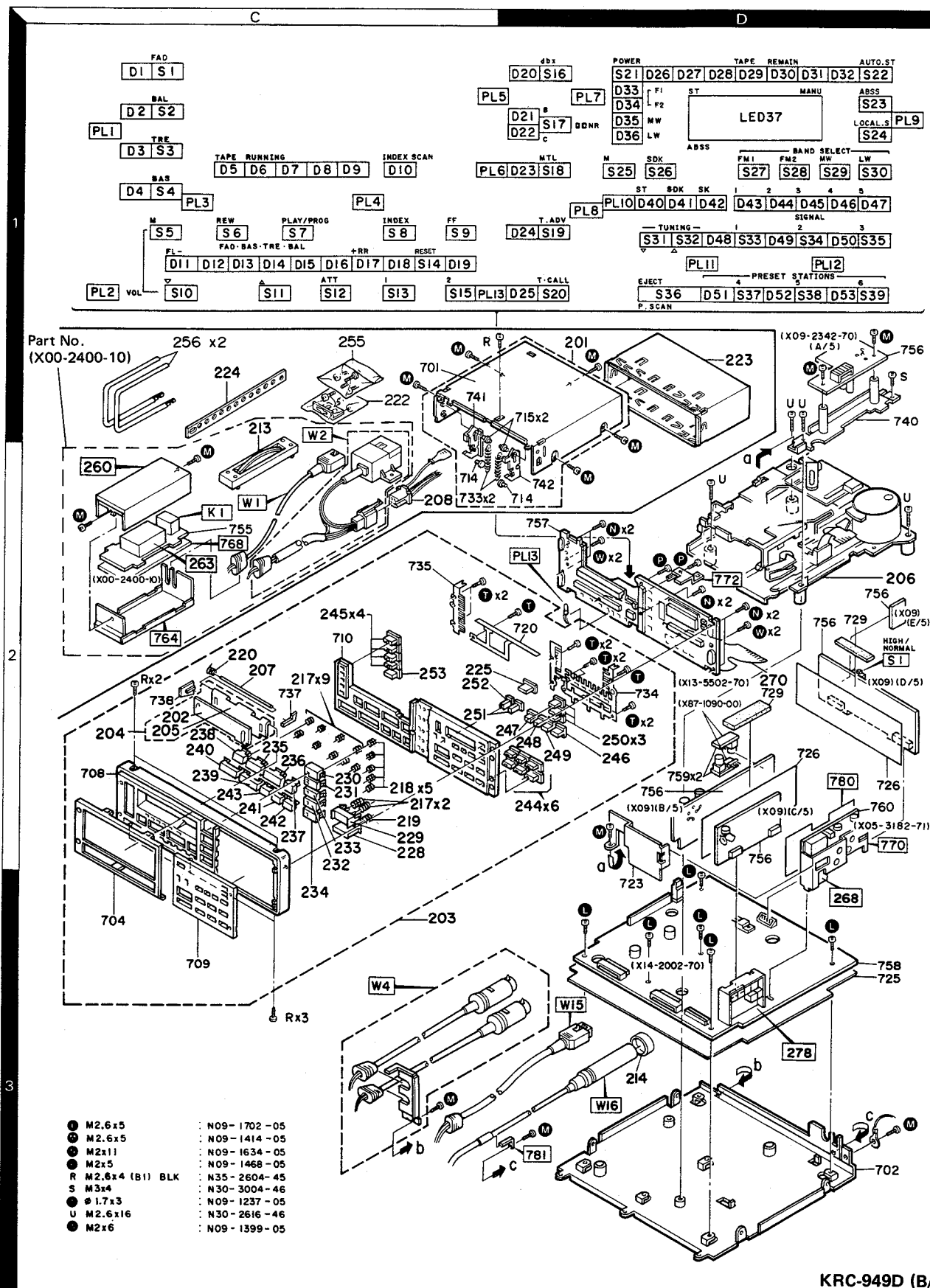
(X00-2400-10)

	B	C	E
Q1	—	0V	—
Q13	—	—	0V
Q14	—	0V	—



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



KRC-949D (B/2)

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KRC-949D						
201	1D	*	A01-1515-02	METALLIC CABINET ASSY		
202	2C		A52-0081-14	FRONT BOARD(CASSETTE LID)		
203	3C	*	A20-5027-12	PANEL ASSY	E	
203	3C	*	A20-5096-12	PANEL ASSY		
204	2C	*	A53-0805-13	CASSETTE LID ASSY	E	
204	2C	*	A53-0888-13	CASSETTE LID ASSY		
205	2C		A53-0806-13	CASSETTE LID	E	
205	2C		A53-0889-03	CASSETTE LID		
-			B46-0100-00	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD		
-		*	B50-6456-00	INSTRUCTION MANUAL(ENG,FRE)	E	
-		*	B50-6525-00	INSTRUCTION MANUAL(GER,ITAL)	E	
-		*	B50-6550-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B50-6575-00	INSTRUCTION MANUAL(DUTCH)	E	
-			B58-0803-03	CAUTION CARD		
-		*	B58-0808-04	CAUTION CARD		
-		*	B58-0810-04	CAUTION CARD		
-		*	B58-0818-04	CAUTION CARD	E	
206	2D		D40-0341-05	CASSETTE MECHANISM ASSY		
207	2C	*	D21-1150-04	SHAFT (CASSETTE LID)		
208	2C		E30-0964-05	DC CORD (4P,26CM)		
213	1C	*	F07-0502-12	COVER (SECURITY)		
214	3D		F29-0046-05	INSULATING COVER(DIN CAP)		
217	2C		G01-1812-04	COMPRESSION SPRING		
218	2C		G01-1813-04	COMPRESSION SPRING		
219	2C	*	G01-1814-14	COMPRESSION SPRING		
220	2C	*	G01-1895-14	TORSION COIL SPRING		
-		*	H01-7356-04	ITEM CARTON CASE	E	
-		*	H01-7377-04	ITEM CARTON CASE		
-		*	H03-0857-04	OUTER CARTON CASE	E	
-		*	H03-0863-04	OUTER CARTON CASE		
-		*	H10-1863-02	POLYSTYRENE FOAMED FIXTURE(BTM)		
-		*	H10-3342-12	POLYSTYRENE FOAMED FIXTURE(TOP)		
-			H25-0085-04	PROTECTION BAG (100X200X0.07)		
-			H25-0112-04	PROTECTION BAG (180X250X0.05)		
-			H25-0226-04	PROTECTION BAG (180X300X0.05)		
-		*	H25-0271-04	PROTECTION BAG		
222	1C		J21-3732-05	MAOUNTING HARDWARE		
223	1D	*	J21-3551-32	MAOUNTING HARDWARE		
224	1C		J54-0059-04	STAY		
-			J61-0067-05	WIRE BAND		
225	2C		K27-1667-04	KN0B (BUTTON)POWER		
228	2C		K27-1608-04	KN0B (BUTTON)P. SCAN		
229	2C		K27-1609-04	KN0B (BUTTON)UP/DOWN		
230	2C		K27-1610-04	KN0B (BUTTON)DBX		
231	2C		K27-1611-04	KN0B (BUTTON)DBLBY		
232	2C		K27-1612-04	KN0B (BUTTON)T. ADV		
233	2C		K27-1613-04	KN0B (BUTTON)MTL		
234	3C		K27-1614-04	KN0B (BUTTON)T. CALL		
235	2C		K27-1615-04	KN0B (BUTTON)PLAY/PR0G		
236	2C		K27-1616-04	KN0B (BUTTON)INDEX. S		

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237	2C		K27-1617-04	KNØB (BUTTON)FF		
238	2C		K27-1618-04	KNØB (BUTTON)REW		
239	2C		K27-1619-04	KNØB (BUTTON)UP		
240	2C		K27-1620-04	KNØB (BUTTON)DOWN		
241	2C		K27-1621-04	KNØB (BUTTON)1		
242	2C		K27-1622-04	KNØB (BUTTON)2		
243	2C		K27-1623-04	KNØB (BUTTON)ATT		
244	2D		K29-2328-03	KNØB ASSY(BUTTON)PRESET ST.		
245	2C	*	K29-2329-13	KNØB ASSY(BUTTON)BASS		
246	2D	*	K27-1677-14	KNØB (BUTTON)LW		
247	2D		K27-1601-14	KNØB (BUTTON)FM1		
248	2D		K27-1602-14	KNØB (BUTTON)FM2		
249	2D		K27-1676-14	KNØB (BUTTON)MW		
250	2D		K27-1604-04	KNØB (BUTTON)AUTO. ST, ABSS, LØ		
251	2C		K27-1605-04	KNØB (BUTTON)SDK		
252	2C		K27-1606-04	KNØB (BUTTON)MEMØ		
253	2C		K27-1607-04	KNØB (BUTTON)V. MEMØ		
255	1C		N99-0082-05	SCREW SET		
L	3D	*	NØ9-1702-05	TAPTITE SCREW (M2.6X5)		
M	1D, 3D		NØ9-1414-05	TAPTITE SCREW (M2.6X5)		
N	2D	*	NØ9-1634-05	TAPTITE SCREW (M2X11)		
P	2D		NØ9-1468-05	TAPTITE SCREW (M2X5)		
T	2C, 2D		NØ9-1237-05	TAPTITE SCREW (Ø1.7X3)PNL ASY		
256	1C		WØ1-Ø119-14	HANDLE		
POWER SUPPLY UNIT (XØØ-24ØØ-1Ø)						
26Ø	2C		AØ1-15Ø4-Ø3	METALLIC CABINET		
D5 ,6		*	LTZ-MR15	LED		
C1 ,2			C93-ØØ12-Ø5	CYLND CHIP C Ø.Ø1UF M		
C3			CEØ4DW1C471M	ELECTRØ 47ØUF 16WV		
C4			C9Ø-1256-Ø5	ELECTRØ 1ØØØUF 16WV		
C5			C93-ØØ12-Ø5	CYLND CHIP C Ø.Ø1UF M		
C6 ,7			CEØ4DW1A47ØM	ELECTRØ 47UF 1ØWV		
C8 ,9			CEØ4DW1HØR1M	ELECTRØ Ø.1UF 5ØWV		
C1Ø ,11			C93-ØØ12-Ø5	CYLND CHIP C Ø.Ø1UF M		
C12 ,13			CEØ4DW1A471M	ELECTRØ 47ØUF 1ØWV		
C14			C93-ØØ12-Ø5	CYLND CHIP C Ø.Ø1UF M		
C15 ,16			CEØ4DW1C47ØM	ELECTRØ 47UF 16WV		
C17 ,18			CEØ4DW1C221M	ELECTRØ 22ØUF 16WV		
C19			CEØ4KW1A1Ø1M	ELECTRØ 1ØØUF 1ØWV		
C2Ø			CK45F1H223Z	CERAMIC Ø.Ø22UF Z		
C21 -23			C93-ØØ12-Ø5	CYLND CHIP C Ø.Ø1UF M		
C24			C9Ø-Ø478-Ø5	ELECTRØ 1ØUF 16WV		
W1	2C	*	E3Ø-1446-Ø5	CØRD WITH CONNECTØR		
W2	1C	*	E3Ø-1445-Ø5	DC CØRD		
W3			E31-3573-Ø5	WIRING HARNESS		
F1 ,2			FØ6-3Ø26-Ø5	FUSE (DC CØRD ASSY)		
L1 ,2			L4Ø-1Ø21-14	SMALL FIXED INDUCTØR(1.ØMH,K)		
M	2C		NØ9-1414-Ø5	TAPTITE SCREW (M2.6X5)		
J3 -8			R92-Ø338-Ø5	CLYND CHIP R Ø ØHM		

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R1 R2 R3 R6 -9 R10 -14			RD41DB2B102J RD41DB2B472J RD41DB2B223J RD41DB2B242J RD41DB2B101J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 2.4K J 1/8W CYLND CHIP R 100 J 1/8W		
R17 ,18 R19 ,20 R21 R22 R23		*	RD41DB2B103J RD41DB2B6R8J RD41DB2B103J RD41DB2B224J RD41DB2B223J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 6.8 J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 220K J 1/8W CYLND CHIP R 22K J 1/8W		
R24 ,25 R26 R27			RD41DB2B103J RD41DB2B223J RD41DB2B562J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 5.6K J 1/8W		
K1	2C	*	S51-1043-05	MAGNETIC RELAY		
D1 -3 D4 D7 -10 Q1 Q2			ERA15-01Y1 RLS-73 RLS-73 2SC2412K DTA124EK	DIODE DIODE DIODE TRANSISTOR DIGITAL TRANSISTOR		
Q3 Q4 Q5 Q6 Q7			2SD966 2SB873 2SC2412K 2SA1037K 2SC2412K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q8 Q9 Q10 Q11 ,12 Q13 ,14			2SA1037K 2SC2412K 2SA1037K 2SK330(Y,GR) 2SC2412K	TRANSISTOR TRANSISTOR TRANSISTOR FET TRANSISTOR		
263	2C	*	WD2-0685-05	ELECTRIC CIRCUIT MODULE		
TUNER UNIT (X05-3182-71)						
C3 C4 C5 C6 ,7 C10 -12		*	C90-0831-05 CK73FB1H103K CK73EB1H473Z CK73FB1H223K CK73FB1H223K	ELECTRO 33UF 10WV CHIP C 0.010UF K CHIP C 0.047UF Z CHIP C 0.022UF K CHIP C 0.022UF K		
C13 C14 ,15 C16 C17 C18		*	CK73FB1H103K C90-0508-05 CK73FB1H223K C90-0477-05 C90-0478-05	CHIP C 0.010UF K ELECTRO 2.2UF 50WV CHIP C 0.022UF K ELECTRO 0.1UF 50WV ELECTRO 10UF 16WV		
C19 C21 C22 C23 C24		*	C90-0831-05 CK73FB1H223K CC73FRH1H100D CK73FB1H103K CC73FCH1H150J	ELECTRO 33UF 10WV CHIP C 0.022UF K CHIP C 10PF D CHIP C 0.010UF K CHIP C 15PF J		
C25 C26 C27 C29 C30 ,31		*	C90-0494-05 C90-0478-05 CC73FSL1H151J CK73FB1H103K C90-0482-05	ELECTRO 22UF 6.3WV ELECTRO 10UF 16WV CHIP C 150PF J CHIP C 0.010UF K ELECTRO 4.7UF 25WV		
C32 ,33 C34			CK73FB1H103K CK73FB1H222K	CHIP C 0.010UF K CHIP C 2200PF K		

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C35 C36 C37 C38 C39			CK73FB1H332K C90-0494-05 C90-0482-05 C90-0824-05 C90-0484-05	CHIP C 3300PF K ELECTRØ 22UF 6.3WV ELECTRØ 4.7UF 25WV ELECTRØ 1UF 50WV ELECTRØ 0.47UF 50WV		
C40 -42 C43		*	CK73FB1H223K CC73FSL1H680J	CHIP C 0.022UF K CHIP C 68PF J		
CN1 CN2 W1		*	E40-3397-05 E40-3393-05 E31-3571-05	PIN ASSY PIN ASSY WIRING HARNESS		
CF1 ,2 L1 T1 X1		*	L72-0135-05 L40-4791-16 L30-0450-05 L78-0208-05	CERAMIC FILTER SMALL FIXED INDUCTOR(4.7UH,K) FM IFT RESONATOR (18.950KHZ)		
- CP1 R1 ,2 R3 ,4 R5			R92-0670-05 R90-0282-05 RK73FB2A104J RK73FB2A101J RK73FB2A331J	CHIP R 0.8HM COMPOSITE ELEMENTS CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 330 J 1/10W		
R6 R7 R8 R9 R10 ,11			RK73FB2A682J RK73FB2A152J RK73FB2A333J RK73FB2A471J RK73FB2A331J	CHIP R 6.8K J 1/10W CHIP R 1.5K J 1/10W CHIP R 33K J 1/10W CHIP R 470 J 1/10W CHIP R 330 J 1/10W		
R13 R14 R15 R16 R18		*	RK73FB2A273J RK73FB2A153J RK73FB2A123J RK73FB2A132J RK73FB2A151J	CHIP R 27K J 1/10W CHIP R 15K J 1/10W CHIP R 12K J 1/10W CHIP R 1.3K J 1/10W CHIP R 150 J 1/10W		
R20 R22 R23 R24 R27			RK73FB2A223J RK73FB2A682J RK73FB2A473J RK73FB2A102J RK73FB2A512J	CHIP R 22K J 1/10W CHIP R 6.8K J 1/10W CHIP R 47K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.1K J 1/10W		
R28 R29 R30 R31 R32		*	RK73FB2A333J RK73FB2A222J RK73FB2A100J RK73FB2A223J RK73FB2A101J	CHIP R 33K J 1/10W CHIP R 2.2K J 1/10W CHIP R 10 J 1/10W CHIP R 22K J 1/10W CHIP R 100 J 1/10W		
R33 R34 R36 R37 R38		*	RK73FB2A223J RK73FB2A102J RK73FB2A473J RK73FB2A823J RK73FB2A223J	CHIP R 22K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 82K J 1/10W CHIP R 22K J 1/10W		
R39 R40 R41 ,42 R43 VR1			RK73FB2A683J RK73FB2A154J RK73FB2A473J RK73FB2A104J R12-1054-05	CHIP R 68K J 1/10W CHIP R 150K J 1/10W CHIP R 47K J 1/10W CHIP R 100K J 1/10W TRIMMING PØT. (1K) IF GAIN		
VR2 ,3 VR5 VR6 VR7			R12-3071-05 R12-3100-05 R12-3071-05 R12-3103-05	TRIMMING PØT. (10K) SEEK ST LVL TRIMMING PØT. (10K) SOFT MUTE TRIMMING PØT. (10K) SEPARATION TRIMMING PØT. (47K) PILOT CANC.		

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D2 -4 D2 -4 D5 IC1 IC2 IC3 Q1 Q2 ,3 Q5 ,6 268			DLS1585 RLS-73 DAN202K TA7411AP LA2110 LA3430 DTC124EK 2SC2413K 2SC2412K WD2-0718-05	DIODE DIODE DIODE IC(FM IF) IC(FM NOISE CANCELLER) IC(FM MPX) TRANSISTOR TRANSISTOR TRANSISTOR FM FRONT-END ASSY			
AUDIO UNIT (X09-2342-70)							
C1 -4 C5 C6 C7 C8 ,9 C10 C11 ,12 C13 ,14 C21 ,22 C23 ,24 C25 ,26 C27 ,28 C29 -31 C32 ,33 C34 ,35 C36 ,37 C38 C39 C40 ,41 C42 ,43 C44 -46 C47 C48 C49 C50 C51 ,52 C53 ,54 C55 ,56 C57 ,58 C59 ,60 C61 ,62 C63 ,64 C65 ,66 C67 ,68 C69 C70 C71 ,72 C80 C81 C82 C83 C84 C85			C009FS1H561J CE04DW1A470M CE04DW1A101M CE04DW1A470M CF92V1H822J CE04DW1A101M CE04CW1C100M CE04DW1C100M CE04DW1E4R7M CE04DW1HR47M CE04DW1HR33M CF92V1H333J CE04DW1C100M CF92V1H472J CS15E0J680K CF92V1H223J CE04DW1H010M CE04DW1C100M C90-0478-05 CF92V1H103J C90-0482-05 CE04DW1E4R7M CE04DW1A101M C90-1263-05 CE04DW1A101M CF92V1H472J CF92V1H474J CF92V1H154J CF92V1H153J CF92V1H224J CF92V1H683J CF92V1H473J CF92V1H682J CF92V1H103J C90-0478-05 C90-1263-05 C092M1H332J C90-0484-05 C93-0010-05 CF92V1H104J C90-0503-05 CK41DB1H101K CF92V1H473J	POLYSTY ELECTR ELECTR ELECTR MF ELECTR ELECTR ELECTR ELECTR ELECTR ELECTR MF ELECTR MF TANTAL MF ELECTR ELECTR ELECTR ELECTR ELECTR MF ELECTR MF ELECTR ELECTR MYLAR ELECTR CYLND CHIP C MF ELECTR CYLND CHIP C MF	560PF J 47UF 10WV 100UF 10WV 47UF 10WV 8200PF J 100UF 10WV 10UF 16WV 10UF 16WV 4.7UF 25WV 0.47UF 50WV 0.33UF 50WV 0.033UF J 10UF 16WV 4700PF J 68UF 6.3WV 0.022UF J 1.0UF 50WV 10UF 16WV 10UF 16WV 0.010UF J 4.7UF 25WV 4.7UF 25WV 100UF 10WV 100UF 16WV 100UF 10WV 4700PF J 0.47UF J 0.15UF J 0.015UF J 0.22UF J 0.068UF J 0.047UF J 6800PF J 0.010UF J 10UF 16WV 100UF 16WV 3300PF J 0.47UF 50WV 6800PF M 0.10UF J 4.7UF 35WV 100PF K 0.047UF J		

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C86			C90-0484-05	ELECTR0 0.47UF 50WV		
C87			C93-0013-05	CERAMIC 22000PF 25WV		
C88			C90-0507-05	ELECTR0 0.33UF 50WV		
C89			C90-0497-05	ELECTR0 22UF 10WV		
C90			C90-0478-05	ELECTR0 10UF 16WV		
C92			CF92V1H683J	MF 0.068UF J		
C93			C90-0482-05	ELECTR0 4.7UF 25WV		
C94			C90-0824-05	ELECTR0 1UF 50WV		
C95			C90-0480-05	ELECTR0 47UF 10WV		
C96			C90-0824-05	ELECTR0 1UF 50WV		
C97-101			C90-0478-05	ELECTR0 10UF 16WV		
C102			C90-0480-05	ELECTR0 47UF 10WV		
C103,104			C90-0506-05	ELECTR0 0.22UF 50WV		
C105,106			C90-0478-05	ELECTR0 10UF 16WV		
C109,110			CK41DB1H101K	CYLND CHIP C 100PF K		
C111			C90-0480-05	ELECTR0 47UF 10WV		
C112			C90-0478-05	ELECTR0 10UF 16WV		
C113		*	CK73EB1H822K	CHIP C 8200PF K		
C114,115			CO92M1H562J	MYLAR 5600PF J		
C116			C90-0478-05	ELECTR0 10UF 16WV		
C117			CF92V1H224J	MF 0.22UF J		
C118			C90-0495-05	ELECTR0 47UF 6.3WV		
C119			C90-0824-05	ELECTR0 1UF 50WV		
C121,122			C90-0478-05	ELECTR0 10UF 16WV		
C123-126			C90-0824-05	ELECTR0 1UF 50WV		
C127,128			CC41DSL1H330J	CYLND CHIP C 33PF J		
C129-132			CF92V1H222J	MF 2200PF J		
C133,134			CF92V1H473J	MF 0.047UF J		
C135-146			C90-0824-05	ELECTR0 1UF 50WV		
C147,148			CE04DW1A101M	ELECTR0 100UF 10WV		
C149,150			C90-0824-05	ELECTR0 1UF 50WV		
C151-154			C93-0001-05	CYLND CHIP C 1200PF M		
C155			C90-0478-05	ELECTR0 10UF 16WV		
C156			CE04DW1C100M	ELECTR0 10UF 16WV		
C157-160			CE04DW1A470M	ELECTR0 47UF 10WV		
C161			C90-0478-05	ELECTR0 10UF 16WV		
C162			CE04DW1C100M	ELECTR0 10UF 16WV		
C163-166			C90-0478-05	ELECTR0 10UF 16WV		
C167,168			C93-0012-05	CYLND CHIP C 0.01UF M		
C169			C90-0478-05	ELECTR0 10UF 16WV		
CN1			E10-0504-05	FLAT CABLE CONNECTOR		
CN3		*	E40-3304-05	PIN ASSY		
CN4			E40-3464-05	PIN ASSY		
CN5			E40-3463-05	PIN ASSY		
CN6			E40-3238-05	PIN ASSY		
CN7			E40-3466-05	PIN ASSY		
CN8			E40-3464-05	PIN ASSY		
CN9			E40-3238-05	PIN ASSY		
CN10			E40-3466-05	PIN ASSY		
CN11		*	E40-3462-05	PIN ASSY		
CN14			E40-3392-05	PIN ASSY		
CN21			E40-3445-15	SOCKET FOR PIN ASSY		
CN22		*	E40-3640-05	PIN ASSY		
CN23,24			E40-3445-15	SOCKET FOR PIN ASSY		
W1			E31-3787-05	WIRING HARNESS		

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IC16 Q1 ,2 Q3 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 ,13 Q22 -25 Q26 -29 Q30 -34 Q35		*	MS218FP 2SC2412K 2SD1664 2SC2412K DTC124EK DTC144EK DTA143EK DTC124EK DTA143EK DTC124EK 2SC2412K 2SK433(D,E) 2SK301(R,S) 2SD1757K DTA124EK	IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR FET FET TRANSISTOR DIGITAL TRANSISTOR		
SWITCH UNIT (X13-5502-70)						
D1 -10 D11 -13 D14 D15 -25 D26 -34 D35 ,36 D40 D41 ,42 D43 -47 D48 -53 LED37 PL1 -12 PL13 270 W S1 -39 D38 ,39 D38 ,39	1C 1C 1C 1C,1D 1D 1D 1D 1D 1D 1D 1D 1C,1D 2D 2D 2D 1C,1D		B30-1130-05 B30-1128-05 B30-1129-05 B30-1130-05 B30-1128-05 B30-1129-05 B30-1130-05 B30-1129-05 B30-1128-05 B30-1130-05 B38-0049-05 B30-1118-05 B30-1041-05 J25-4920-02 N09-1399-05 S40-1096-05 GMA01 1SS176	LED(SLH-38VC3)RED/TAPE,IND.S LED(SLH-38MC3)GRN/VOL IND LED(SLH-38YC3)YLW/VOL IND LED(SLH-38VC3)RED/VOL,DBX LED(SLH-38MC3)GRN/REMAIN,F1,2 LED(SLH-38YC3)YLW/MW,LW LED(SLH-38VC3)RED/ST LED(SLH-38YC3)YLW/SDK,SK LED(SLH-38MC3)GRN/SIGNAL LED(SLH-38VC3)RED/PRESET ST LED DISPLAY ASSY LAMP(6V 0.065A) LAMP(16V 0.04A)PRESET PRINTED WIRING BOARD ASSY TAPTITE SCREW (M2X6) PUSH SWITCH (OPERATION KEY) DIODE DIODE		
SYNTHESIZER UNIT (X14-2002-70)						
C1 C2 C3 ,4 C5 C6 C7 C8 ,9 C10 C11 C12 C13 C14 C15 C16 ,17 C18 C19 ,20 C21			CE04CW1C100M C90-0824-05 C90-0478-05 C90-0824-05 C90-0478-05 C90-0824-05 C90-0478-05 CC41DSL1H330J C90-0824-05 CK41DB1H102K C93-0007-05 CE04CW1C100M C90-0824-05 CE04CW1C470M CE04CW1C100M C90-0482-05 CK73EF1E334Z	ELECTRO 10UF 16WV ELECTRO 1UF 50WV ELECTRO 10UF 16WV ELECTRO 1UF 50WV ELECTRO 10UF 16WV ELECTRO 1UF 50WV ELECTRO 10UF 16WV CYLND CHIP C 33PF J ELECTRO 1UF 50WV CYLND CHIP C 1000PF K CYLND CHIP C 3900PF M ELECTRO 10UF 16WV ELECTRO 1UF 50WV ELECTRO 47UF 16WV ELECTRO 10UF 16WV ELECTRO 4.7UF 25WV CHIP C 0.33UF Z		

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W2 W3 W4	3C	*	E31-3883-05	LEAD WIRE		
		*	E31-3884-05	LEAD WIRE		
		*	E30-1538-05	CORD WITH DIN CONNECTOR		
CP2 ,3 X1			L79-0714-05 L78-0208-05	LC FILTER RESONATOR (18.950KHZ)		
CP1			R90-0468-05	COMPOSITE ELEMENTS		
J1 -5			R92-0338-05	CYLND CHIP R 0.0HM		
R1 ,2			RD41DB2B221J	CYLND CHIP R 220 J 1/8W		
R3 ,4			RD41DB2B363J	CYLND CHIP R 36K J 1/8W		
R5 ,6			RD41DB2B203J	CYLND CHIP R 20K J 1/8W		
R7 ,8			RD41DB2B334J	CYLND CHIP R 330K J 1/8W		
R9 ,10			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R11			RD41DB2B753J	CYLND CHIP R 75K J 1/8W		
R21 -24			RD41DB2B563J	CYLND CHIP R 56K J 1/8W		
R25 ,26			RD41DB2B392J	CYLND CHIP R 3.9K J 1/8W		
R27 ,28			RD41DB2B163J	CYLND CHIP R 16K J 1/8W		
R29 ,30			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R31 ,32			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R34 ,35			RD41DB2B151J	CYLND CHIP R 150 J 1/8W		
R36 ,37			RD41DB2B163J	CYLND CHIP R 16K J 1/8W		
R38 ,39			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R40 ,41			RD41DB2B561J	CYLND CHIP R 560 J 1/8W		
R42			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R43 ,44			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R45 ,46			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R47			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R48			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R49 -52			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R53 ,54			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R55 ,56			RD41DB2B681J	CYLND CHIP R 680 J 1/8W		
R57			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R58 ,59			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R61			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R63			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R64 ,65			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R66			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R71			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R72			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R73			RD41DB2B474J	CYLND CHIP R 470K J 1/8W		
R74			RD41DB2B271J	CYLND CHIP R 270 J 1/8W		
R75			RD41DB2B122J	CYLND CHIP R 1.2K J 1/8W		
R76			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R77 ,78			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R79			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R80			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R81 ,82			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R84			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R85			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R87			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R88			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R89			RD41DB2B823J	CYLND CHIP R 82K J 1/8W		
R90 ,91			RD41DB2B242J	CYLND CHIP R 2.4K J 1/8W		
R94 ,95			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R96 ,97			RD41DB2B202J	CYLND CHIP R 2.0K J 1/8W		

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R98 ,99 R100,101 R102,103 R104 R105			RD41DB2B133J RD41DB2B103J RD41DB2B102J RD41DB2B221J RD41DB2B471J	CYLND CHIP R 13K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 220 J 1/8W CYLND CHIP R 470 J 1/8W		
R106-111 R112 R113 R114 R121-124			RD41DB2B103J RD41DB2B182J RD41DB2B331J RD41DB2B153J RD41DB2B103J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 1.8K J 1/8W CYLND CHIP R 330 J 1/8W CYLND CHIP R 15K J 1/8W CYLND CHIP R 10K J 1/8W		
R125 R126 R127-130 R131,132 R133-136			RD41DB2B222J RD41DB2B472J RD41DB2B105J RD41DB2B103J RD41DB2B224J	CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 1.0M J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 220K J 1/8W		
R137 R138-143 R144,145 R146-149 R150,151			RD41DB2B102J RD41DB2B224J RD41DB2B221J RD41DB2B392J RD41DB2B221J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 220K J 1/8W CYLND CHIP R 220 J 1/8W CYLND CHIP R 3.9K J 1/8W CYLND CHIP R 220 J 1/8W		
R152-157 R158,159 R160-165 R166,167 R168-171			RK73EB2B335J RD41DB2B222J RK73EB2B335J RD41DB2B562J RD41DB2B102J	CHIP R 3.3M J 1/8W CYLND CHIP R 2.2K J 1/8W CHIP R 3.3M J 1/8W CYLND CHIP R 5.6K J 1/8W CYLND CHIP R 1.0K J 1/8W		
R172,173 R174-177 R178-181 R182,183 R184			RD41DB2B562J RD41DB2B472J RD41DB2B182J RD41DB2B222J RD41DB2B104J	CYLND CHIP R 5.6K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 1.8K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 100K J 1/8W		
R185 R186 R187-190 VR1 ,2 VR3			RD41DB2B472J RD41DB2B222J RD41DB2B102J R12-3100-05 R12-1071-05	CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 1.0K J 1/8W TRIMMING P8T. (10K) PB LEVEL TRIMMING P8T. (2.2K) DBX		
VR5 ,6 VR7			R12-3100-05 R12-1070-05	TRIMMING P8T. (10K) DK VCO TRIMMING P8T. (1K) DK LEVEL		
S1	2D		S31-4010-05	SLIDE SWITCH (HIGH/NORMAL)		
D1 D2 D5 ,6 D5 ,6 D10 -17			RLZJ5.1 RLZJ10 DLS1585 RLS-73 DLS1585	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D10 -17 IC1 IC2 IC3 IC4			RLS-73 TA7705F AN6291S CX20187 LA2220	DIODE IC(PREAMP FOR AUTO REVERSE) IC(DUAL DBX ENCODER DECODER) IC(DBLBY B/C NOISE REDUCT X2) IC(SK SIGNAL DETECT)		
IC5 IC6 ,7 IC11 IC12,13 IC14,15		* *	LA3365 M5218FP TC9188N M5218FP NJM2041M	IC(FM MPX) - IC(OP AMP X2) IC(2CH ELECTRONIC VOLUME) IC(OP AMP X2) IC(OP AMP X2)		

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C22			CC41DUJ1H330J	CYLND CHIP C 33PF J		
C23			C90-0824-05	ELECTRØ 1UF 50WV		
C24			CC41DUJ1H330J	CYLND CHIP C 33PF J		
C25			CE04DW1A101M	ELECTRØ 100UF 10WV		
C26			CE04CW1H2R2M	ELECTRØ 2.2UF 50WV		
C27			C90-0508-05	ELECTRØ 2.2UF 50WV		
C28			C90-0484-05	ELECTRØ 0.47UF 50WV		
C29 ,30			C93-0008-05	CYLND CHIP C 4700PF M		
C31			C90-0824-05	ELECTRØ 1UF 50WV		
C32 -34			CC41DSL1H220J	CYLND CHIP C 22PF J		
C35			CK73EB1E563K	CHIP C 0.056UF K		
C36			CK73EF1E334Z	CHIP C 0.33UF Z		
C37			CE04CW1C100M	ELECTRØ 10UF 16WV		
C41			C90-1263-05	ELECTRØ 100UF 16WV		
C42			CE04DW1A101M	ELECTRØ 100UF 10WV		
C43 ,44			CE04CW1C100M	ELECTRØ 10UF 16WV		
C45 -47			C90-0478-05	ELECTRØ 10UF 16WV		
C48			CE04DW1A470M	ELECTRØ 47UF 10WV		
C49			CE04DW1A101M	ELECTRØ 100UF 10WV		
C50 ,51			CE04DW1A471M	ELECTRØ 470UF 10WV		
C52			C90-0478-05	ELECTRØ 10UF 16WV		
C53			C90-0482-05	ELECTRØ 4.7UF 25WV		
C54			C90-0478-05	ELECTRØ 10UF 16WV		
C55			C93-0012-05	CYLND CHIP C 0.01UF M		
C56			CE04DW1A221M	ELECTRØ 220UF 10WV		
C57			C93-0012-05	CYLND CHIP C 0.01UF M		
C58			C90-0507-05	ELECTRØ 0.33UF 50WV		
C59			C90-0824-05	ELECTRØ 1UF 50WV		
C60			CK73EB1H223K	CHIP C 0.022UF K		
C61 ,62			CC41DSL1H220J	CYLND CHIP C 22PF J		
C63			C90-0508-05	ELECTRØ 2.2UF 50WV		
C66			CE04DW1A470M	ELECTRØ 47UF 10WV		
C67 ,68			C90-0478-05	ELECTRØ 10UF 16WV		
C69			C90-1263-05	ELECTRØ 100UF 16WV		
C70			C90-0477-05	ELECTRØ 0.1UF 50WV		
C71			C90-0498-05	ELECTRØ 3.3UF 25WV		
C73			C90-0508-05	ELECTRØ 2.2UF 50WV		
C74			CK73EB1H223K	CHIP C 0.022UF K		
C75			CE04DW1A471M	ELECTRØ 470UF 10WV		
C76		*	C90-1409-05	ELECTRØ 220UF 10WV		
C77 ,78			CE04DW1C221M	ELECTRØ 220UF 16WV		
C79 ,80			CE04DW1A101M	ELECTRØ 100UF 10WV		
C81			CE04CW1H2R2M	ELECTRØ 2.2UF 50WV		
C82			C90-0484-05	ELECTRØ 0.47UF 50WV		
C83			CE04DW1A221M	ELECTRØ 220UF 10WV		
C84 -86			CK73EF1E334Z	CHIP C 0.33UF Z		
CN1			E10-2209-05	FLAT CABLE CONNECTOR		
CN2			E40-0587-05	PIN ASSY		
CN3			E40-3485-05	PIN ASSY		
CN4			E40-3484-05	PIN ASSY		
CN5			E40-3487-05	PIN ASSY		
CN6		*	E40-3483-05	PIN ASSY		
CN7			E10-1602-05	FLAT CABLE CONNECTOR		
CN8			E10-2003-05	FLAT CABLE CONNECTOR		

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CN9 CN13 CN14 W15 W16	3D 3D	*	E10-2101-05 E40-3487-05 E40-3485-05 E30-1444-05 E30-1518-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY CORD WITH CONNECTOR CORD WITH PLUG (ANT)		
L1 X1		*	L40-2282-16 L77-0585-05	SMALL FIXED INDUCTOR CRYSTAL RESONATOR(4.5MHZ)		
CP1 CP2 ,3 J1 -67 J70 -104 J105			R90-0467-05 R90-0418-05 R92-0338-05 R92-0338-05 R92-0338-05	MULTIPLE RESISTOR MULTI-COMP 47KX5 CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM		
R1 R2 R3 R4 -7 R8			RD41DB2B680J RD41DB2B104J RD41DB2B222J RD41DB2B103J RD41DB2B104J	CYLND CHIP R 68 J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 100K J 1/8W		
R9 R10 ,11 R12 ,13 R14 ,15 R16 ,17			RD41DB2B102J RD41DB2B122J RD41DB2B102J RD41DB2B122J RD41DB2B223J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 22K J 1/8W		
R18 R19 R20 R21 R22			RD41DB2B472J RD41DB2B224J RD41DB2B152J RD41DB2B823J RD41DB2B471J	CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 220K J 1/8W CYLND CHIP R 1.5K J 1/8W CYLND CHIP R 82K J 1/8W CYLND CHIP R 470 J 1/8W		
R23 R24 R26 R27 R28			RD41DB2B823J RD41DB2B332J RD41DB2B103J RD41DB2B154J RD41DB2B223J	CYLND CHIP R 82K J 1/8W CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 150K J 1/8W CYLND CHIP R 22K J 1/8W		
R29 R30 R31 ,32 R33 R34			RD41DB2B474J RD41DB2B103J RD41DB2B223J RD41DB2B104J RD41DB2B473J	CYLND CHIP R 470K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 47K J 1/8W		
R35 ,36 R37 -43 R44 R45 -47 R48 ,49			RD41DB2B472J RD41DB2B331J RD14DB2H680J RD41DB2B270J RD41DB2B102J	CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 330 J 1/8W SMALL-RD 68 J 1/2W CYLND CHIP R 27 J 1/8W CYLND CHIP R 1.0K J 1/8W		
R51 -55 R56 R57 ,58 R59 R60			RD41DB2B102J RD41DB2B104J RD41DB2B103J RD41DB2B472J RD41DB2B103J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 10K J 1/8W		
R61 R62 R63 R64 R65			RD41DB2B223J RD41DB2B104J RD41DB2B474J RD41DB2B913J RD41DB2B222J	CYLND CHIP R 22K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 470K J 1/8W CYLND CHIP R 91K J 1/8W CYLND CHIP R 2.2K J 1/8W		
R66 R67			RD41DB2B103J RD41DB2B101J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 100 J 1/8W		

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R68 -70			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R71			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R72			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R73			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		
R74			RD41DB2B753J	CYLND CHIP R 75K J 1/8W		
R75			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R76			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R77 -79			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R80 ,81			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R82			RD41DB2B474J	CYLND CHIP R 470K J 1/8W		
R83			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R84 ,85			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R86			RD41DB2B474J	CYLND CHIP R 470K J 1/8W		
R87 ,88			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R89			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R90			RD41DB2B361J	CYLND CHIP R 360 J 1/8W		
R91			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R92			RD41DB2B474J	CYLND CHIP R 470K J 1/8W		
R93			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R94 ,95			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R96			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R97			RD41DB2B361J	CYLND CHIP R 360 J 1/8W		
R98 ,99			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		
R100			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R101			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R102,103			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R104			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R105			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R106			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R107,108			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R109			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R110			RD41DB2B393J	CYLND CHIP R 39K J 1/8W		
R111			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R112			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R113			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R114			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R115			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R116			RD41DB2B684J	CYLND CHIP R 680K J 1/8W		
R118			RD14DB2H220J	SMALL-RD 22 J 1/2W		
R119			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R120,121			RD41DB2B270J	CYLND CHIP R 27 J 1/8W		
R122			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R123,124			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R125			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R126			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R127			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R128			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R129,130			RD41DB2B270J	CYLND CHIP R 27 J 1/8W		
R132			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R134-140			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R141		*	RD41DB2B3R3J	CYLND CHIP R 3.3 J 1/8W		
R142			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R143			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R144			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R145			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		

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R146			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R147			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R148			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R149			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R150			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R151			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R152			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R153, 154			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R155			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R156			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R157, 158			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R159			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R160			RD41DB2B394J	CYLND CHIP R 390K J 1/8W		
R161			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R162			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R163			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R164			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R165			RD41DB2B183J	CYLND CHIP R 18K J 1/8W		
R166			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R167			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R168			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R169			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R170			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R171			RD41DB2B184J	CYLND CHIP R 180K J 1/8W		
R172, 173			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R174			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R175			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R176			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R177			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R178-181			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R182			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R183			RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W		
R184			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R185			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R186, 187			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R188			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R189, 190			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R191			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R192			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R193			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R194			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R195			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R196			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R197			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R200			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R201			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		
R202, 203			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R205-207			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R250			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R251		*	RD41DB2B124J	CYLND CHIP R 120K J 1/8W		
R252			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R253			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R254			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
VR1			R12-5044-05	TRIMMING PNT. (100K) S-METER		
VR2			R12-3083-05	TRIMMING PNT. (47K) STOP LEVEL		

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VR3			R12-5044-05	TRIMMING PNT. (100K)S-METER		
PH1 ,2			T95-0029-05	OPTO ISOLATOR		
D1 -11			DLS1585	DIODE		
D1 -11			RLS-73	DIODE		
D12			RLZJ10	ZENER DIODE		
D13 -45			DLS1585	DIODE		
D13 -45			RLS-73	DIODE		
D50		*	RLZJ6.8	ZENER DIODE		
D51			RLZJ5.6	ZENER DIODE		
D52			RLZJ6.2	ZENER DIODE		
D53			RLZJ5.1	ZENER DIODE		
D54 -56			DLS1585	DIODE		
D54 -56			RLS-73	DIODE		
D57			RLZJ8.2	ZENER DIODE		
D58 -65			DLS1585	DIODE		
D58 -65			RLS-73	DIODE		
D68 -89			DLS1585	DIODE		
D68 -89			RLS-73	DIODE		
D92 ,93			DLS1585	DIODE		
D92 ,93			RLS-73	DIODE		
D95 -100			DLS1585	DIODE		
D95 -100			RLS-73	DIODE		
D101			RLZJ10	ZENER DIODE		
D102-107			DLS1585	DIODE		
D102-107			RLS-73	DIODE		
IC1			KC-821	IC(MECHANISM DRIVER)		
IC2			7508G(M)-817-00	IC(MICROPROCESSOR)		
IC3			TC4030BF	IC(EXCLUSIVE OR X4)		
IC4			NJM2903M	IC(COMPARETOR X2)		
IC5			7508G(M)-814-00	IC(MICROPROCESSOR)		
IC6			TC4028BF	IC(BCD-T0-DECIMAL DECODER)		
IC7			TD62006P	IC(6CH TRANSISTOR ARRAY)		
IC8			BA618	IC(7-SEG LED DRIVER)		
IC9			TC4011BF	IC(NAND X4)		
IC10			UPD1707G-544-00	IC(DIGITAL TUNING SYSTEM)		
IC11			UPB553AC	IC(PRE SCALER)		
IC12			TD62506P	IC(7CH TRANSISTOR ARRAY)		
IC13			UPA81C	IC(7CH LED DRIVER)		
Q1 ,2			DTC124EK	DIGITAL TRANSISTOR		
Q3 ,4			2SB118B	TRANSISTOR		
Q5 -7		*	2SD1766	TRANSISTOR		
Q8		*	DTA114YK	DIGITAL TRANSISTOR		
Q9 -13			DTC124EK	DIGITAL TRANSISTOR		
Q14			2SC2412K	TRANSISTOR		
Q15			DTA124EK	DIGITAL TRANSISTOR		
Q16 ,17			2SC2412K	TRANSISTOR		
Q19			DTC124EK	DIGITAL TRANSISTOR		
Q20			2SC2412K	TRANSISTOR		
Q21 -23			DTA124EK	DIGITAL TRANSISTOR		
Q24			DTC124EK	DIGITAL TRANSISTOR		
Q25			2SC2412K	TRANSISTOR		
Q26			DTA124EK	DIGITAL TRANSISTOR		
Q27			DTA144EK	DIGITAL TRANSISTOR		

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Q28 Q29 Q30 ,31 Q32 Q33 ,34			DTA124EK DTC124EK 2SB1188 DTC124EK DTA124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q51 Q52 Q53 Q54 ,55 Q56		*	2SD1766 2SC2412K 2SB1015 DTC124EK DTA124EK	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q57 Q58 Q59 -63 Q64 Q65		*	DTC124EK DTC143EK DTC124EK DTC143EK 2SC2412K	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q66 Q67 -69 Q70 Q71 Q72		*	2SB1015LB DTC124EK 2SC2412K 2SD1383K(B) 2SC2412K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q73 ,74 Q75 Q76 Q77 Q78			2SC2412K DTC124EK DTA124EK DTC124EK 2SB1015	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q79 Q80 Q81 ,82 Q83 Q84		*	2SC2412K DTC114YK DTC124EK 2SB1188 DTC143EK	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q85 Q86 -88 Q89 Q90 Q91			2SB1188 DTC124EK 2SC2412K(S) 2SC2412K 2SA1037K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q92 Q93 ,94 Q95 Q96 Q98		*	DTA124EK DTC124EK DTA124EK DTC143EK DTC124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q99 ,100 Q101 Q102 Q103 Q104			2SC2412K(S) 2SC2412K DTA124EK 2SA1036K 2SC2412K	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q105 Q106 ,107 Q108 Q109			DTC124EK 2SC2412K DTC124EK DTA124EK	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
278	3D		WD2-0653-05	TUNER ASSY		
DOLBY NOISE REDUCTION UNIT (X87-1090-00)						
C1			CK45B1H681K	CERAMIC 680PF K		
L1			L39-0118-05	TRAP COIL		

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TUNER ASS'Y (W02-0653-05)						
D1 -4			1SS110	DIODE		
D1 -4			1SS53	DIODE		
D1 -4			1S1555	DIODE		
D5 -7			SVC321	VARIABLE CAPACITANCE DIODE		
D5 -7			1SV149	VARIABLE CAPACITANCE DIODE		
FET1			2SK163	FET		
FET2			2SK184	FET		
TR1 -5			2SC2620	TRANSISTOR		
TR1 -5			2SC2714	TRANSISTOR		
TR1 -5			2SC2814	TRANSISTOR		
TR6			2SC2669	TRANSISTOR		
ELECTRIC CIRCUIT MODULE (W02-0685-05)						
D1 ,2			1S1588	DIODE		
D3 -5			RD5.1EL2	ZENER DIODE		
Q1 ,2			2SC1815Y	TRANSISTOR		
Q3			2SA1241Y	TRANSISTOR		
FM FRONT-END ASS'Y (W02-0718-05)						
D1 -3			1SV103	DIODE		
D4			1S1555	DIODE		
FET1			3SK114	FET		
TR1			2SC2669	TRANSISTOR		
SCREW SET (N99-0082-05)						
-			N09-0335-05	PAN TAPPING SCREW(/5X16)		
-			N09-0336-05	HEX BOLT SCREW (M5X20)		
-			N09-1438-05	STEPPED SCREW		
-			N14-0117-05	FLANGE NUT (M5)		
-			N19-0871-05	FLAT WASHER (Ø6X20X1)		
CASSETTE MECHANISM ASS'Y (D40-0341-05)						
4	2A, 3A		B09-0050-08	CAP (REEL)		
5	3A, 3B		D01-0072-08	FLYWHEEL ASSY		
6	3A		D03-0242-08	REEL DISK ASSY		
7	3A		D03-0246-08	REEL DISK (CONTROL SHASSIS)		
8	3B		D10-1506-08	LEVER (DOWN B)		
9	2A		D10-1507-08	LEVER		
10	3B		D10-1508-08	LEVER (DOWN A)		
11	1A		D10-1509-08	LEVER		
12	1B		D10-1511-08	LEVER (DAH C)		
13	2B		D10-1512-08	LEVER (MUTING)		
14	2B		D10-1513-08	LEVER (T. ADV R)		
15	1B		D10-1514-08	LEVER (T. ADV)		
16	3B		D10-1515-08	LEVER ASSY (DOWN C)		
17	1A		D10-1516-08	LEVER ASSY		
18	1B		D10-1517-08	LEVER ASSY		
19	2B		D10-1518-08	LEVER ASSY (DAH A)		
20	2B		D10-1519-08	LEVER ASSY (DAH B)		
21	1B		D10-1520-08	LEVER ASSY (T. ADV LEVER F)		
22	2B		D10-1521-08	LEVER ASSY (T. ADV)		
23	3A		D10-1522-08	LEVER ASSY (FR)		
25	2B		D12-0110-08	CAM		
26	3B		D13-0287-08	GEAR (FWD)		
27	3A		D13-0288-08	GEAR		
28	3A		D13-0289-08	GEAR		

E: Scandinavia & Europe H: Audio Club K: USA P: Canada W: Europe

A: Saudi Arabia T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
29	3A		D13-0290-08	GEAR		
30	3A		D13-0291-08	GEAR		
31	3A		D13-0292-08	GEAR		
32	3A		D13-0293-08	GEAR		
33	3A		D13-0294-08	GEAR ASSY (FR)		
34	3A		D13-0295-08	GEAR ASSY (PLAY)		
35	1A, 3B		D14-0128-08	ROLLER		
36	1B		D14-0129-08	PINCH ROLLER ASSY		
37	1B		D14-0133-08	ROLLER (HEAD)		
38	2B		D15-0238-08	PULLEY		
39	3B		D16-0122-08	BELT		
40	3B		D16-0123-08	BELT		
41	1B, 2B		D90-0028-08	STEEL BALL		
51	1B		F10-0570-08	SHIELDING PLATE (HEAD)		
55	2B		G01-1716-08	COMPRESSION SPRING (T.ADV)		
56	2B		G01-1717-08	TENSION SPRING		
57	1B		G01-1718-08	TORSION COIL SPRING		
58	1B		G01-1719-08	COMPRESSION SPRING (F)		
59	1A		G01-1720-08	COMPRESSION SPRING (R)		
60	3B		G01-1721-08	TENSION SPRING		
61	2A, 2B		G01-1722-08	TENSION SPRING		
62	1A		G01-1723-08	TENSION SPRING		
63	2B		G01-1724-08	TENSION SPRING		
64	3A		G01-1725-08	TORSION COIL SPRING		
65	1A		G01-1726-08	COMPRESSION SPRING		
66	2A		G01-1754-08	TENSION SPRING		
67	1B		G02-0369-08	FLAT SPRING		
68	1B		G09-0058-08	SPRING		
69	1A		G09-0059-08	SPRING		
70	3A		G09-0060-08	SPRING		
78	1B		J25-4726-08	PRINTED WIRING BOARD		
79	3A		J25-4867-08	PRINTED WIRING BOARD		
80	1A		J19-2556-08	HOLDER ASSY		
81	2A		J19-2557-08	HOLDER ASSY		
82	2A		J21-3684-08	MOUNTING HARDWARE ASSY		
84	1B		J30-0211-08	SPACER		
85	1A, 1B		J31-0258-08	COLLAR		
86	1A		J32-0298-08	BOSS		
87	2A		J90-0156-08	GUIDE		
100	2B, 3B		N19-0374-04	FLAT WASHER (Ø3XØ1.2X0.25)		
101	2A, 2B		N19-0955-08	FLAT WASHER (Ø4.5XØ1.7X0.4)		
102	2A, 3A		N19-0956-08	FLAT WASHER (Ø2.5XØ1.0X0.25)		
103	3A		N19-0957-08	FLAT WASHER (Ø2.5XØ1.6X0.25)		
104	2A, 3A		N19-0958-08	FLAT WASHER (Ø3.2XØ1.7X0.25)		
105	2B		N19-0959-08	FLAT WASHER (Ø5XØ2.5X0.13)		
106	2B, 3B		N19-0960-08	FLAT WASHER (Ø3.5XØ2.1X0.13)		
107	3A		N19-0961-08	FLAT WASHER (Ø3.2XØ1.7X0.25)		
108	1B, 2B		N24-3012-41	E TYPE RETAINING RING (1.2)		
109	1A, 3B		N24-3015-41	E TYPE RETAINING RING (1.5)		
110	2B		N24-3016-08	E TYPE RETAINING RING		
A	3A		N09-1534-08	SCREW (M1.4X3)		
B	1B		N09-1562-08	SCREW (M1.2X2)		

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⚠ indicates safety critical components.

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S901	2B		S46-1064-08	LEAF SWITCH (MUTING)		
S902	2A		S46-1065-08	LEAF SWITCH		
S903	2A		S31-1010-08	SLIDE SWITCH (POWER)		
S904	2A		S46-1066-08	LEAF SWITCH		
120	1B		T31-0031-08	PLAYBACK HEAD		
121	3A		T94-0088-08	SOLENOID		
M801,802	2A		T49-0019-08	MOTOR (FF/REW,FWD/REV		
M901	2B		T42-0077-08	DC MOTOR ASSY		

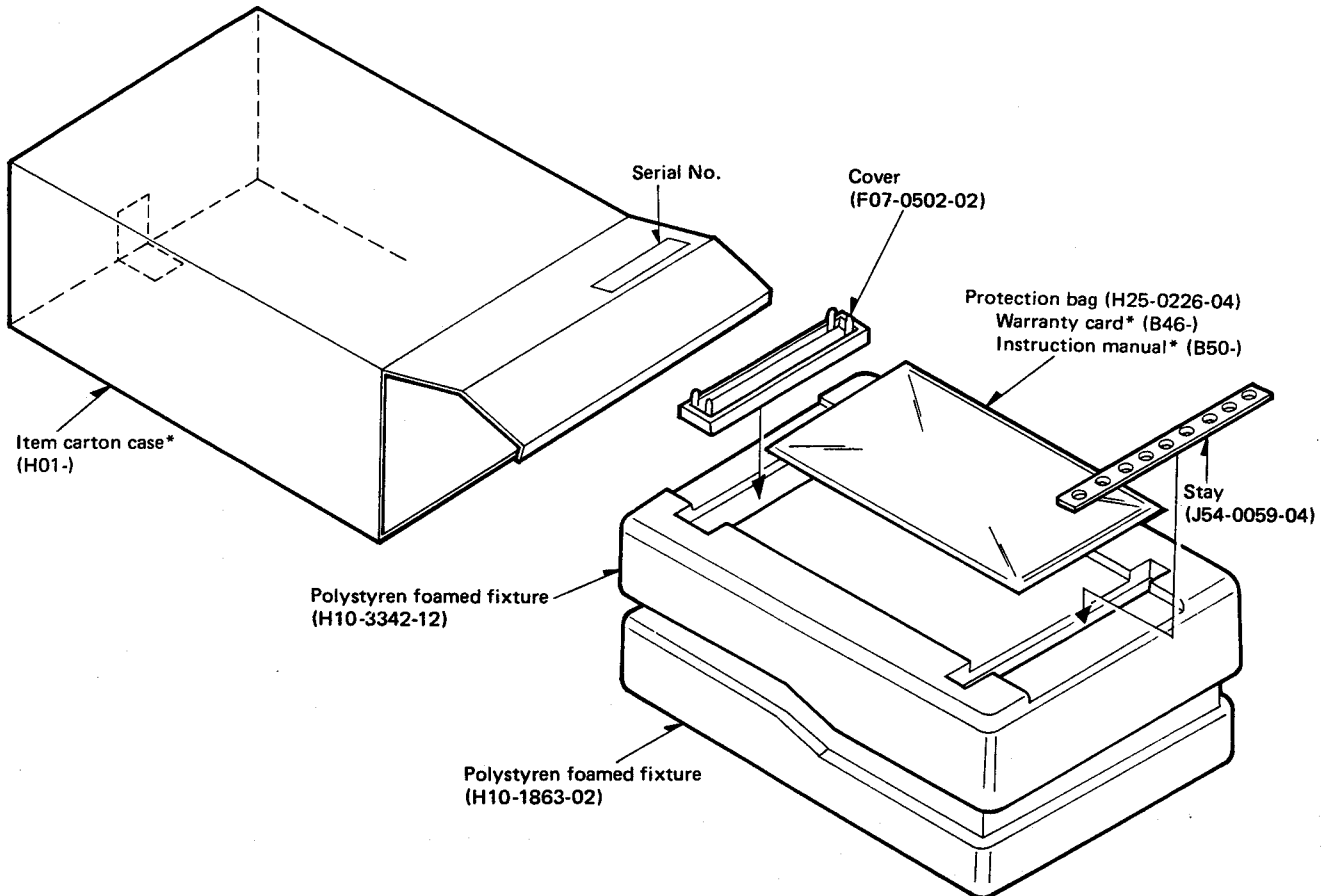
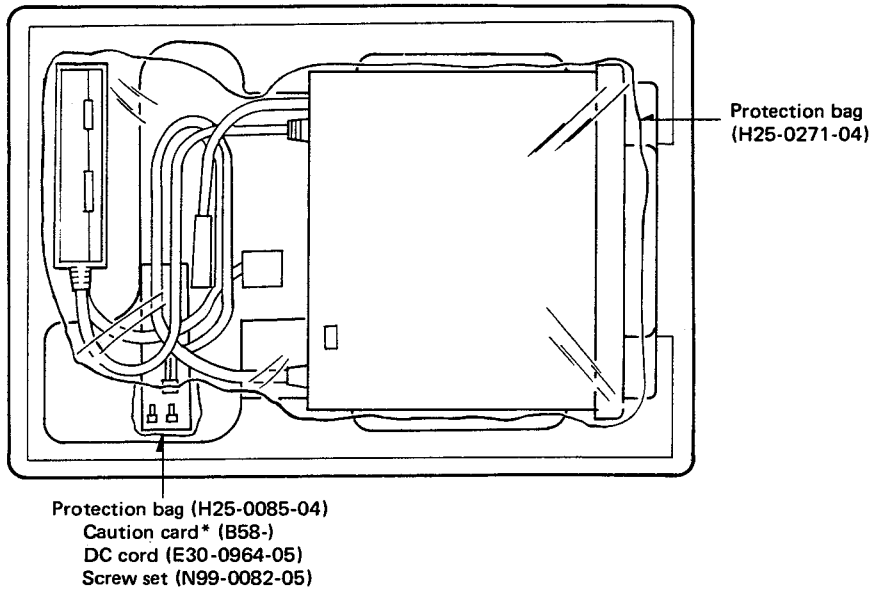
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A: Saudi Arabia T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

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PACKING



* Refer to parts list on page 39.

SPECIFICATIONS

FM Tuner Section

Frequency range	87.5 ~ 108.0 MHz
Usable sensitivity (DIN)	1.3 μ V/75 Ω
Stereo sensitivity (S/N = 46 dB)	2.2 μ V/75 Ω
Frequency response (± 4.5 dB)	30 ~ 15,000 Hz
Signal to noise ratio (IEC-A)	70 dB
Selectivity (DIN)	75 dB
Stereo separation (1 kHz)	40 dB
19 kHz carrier leakage	50 dB

MW Tuner Section

MW frequency range	522 ~ 1,611 kHz
MW usable sensitivity	30 μ V

LW Tuner Section

LW frequency range	153 ~ 279 kHz
LW usable sensitivity	55 μ V

Cassette Deck Section

Tape speed	4.76 cm/s
Wow & flutter (WRMS)	0.6% (WRMS)
Wow & flutter (DIN)	0.1% (W-PEAK)
Fast winding time (C-60)	120 s
Frequency response (+4, -6 dB)	25 Hz ~ 20 kHz (120 μ s)
	25 Hz ~ 22 kHz (70 μ s)
Stereo separation (1 kHz)	40 dB
Signal to noise ratio (IEC-A)	
Dolby NR OFF	58 dB
Dolby B ON	67 dB
Dolby C ON	74 dB
dbx ON	84 dB

Audio Section

Tone action	Bass: 100 Hz $\pm$ 10dB
	Treble: 10kHz $\pm$ 10dB
Preout level/Impedance	Normal: 300 mV/180 ohms
	High: 1.0 V/180 ohms

General

Operating voltage	14.4 V (11 ~ 16 V allowable)
Current consumption	0.8 A at Rated Power
Body size	180 x 50 x 160 mm
	(7-1/16 x 1-15/16 x 6-5/16 in.)
Weight	4.2 lb (1.9 kg)

dbx is the Trade Mark of dbx Inc.

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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KENWOOD U.S.A. CORPORATION

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P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.

Hi-Fi-VIDEO-CAR Hi-Fi
13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.

17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

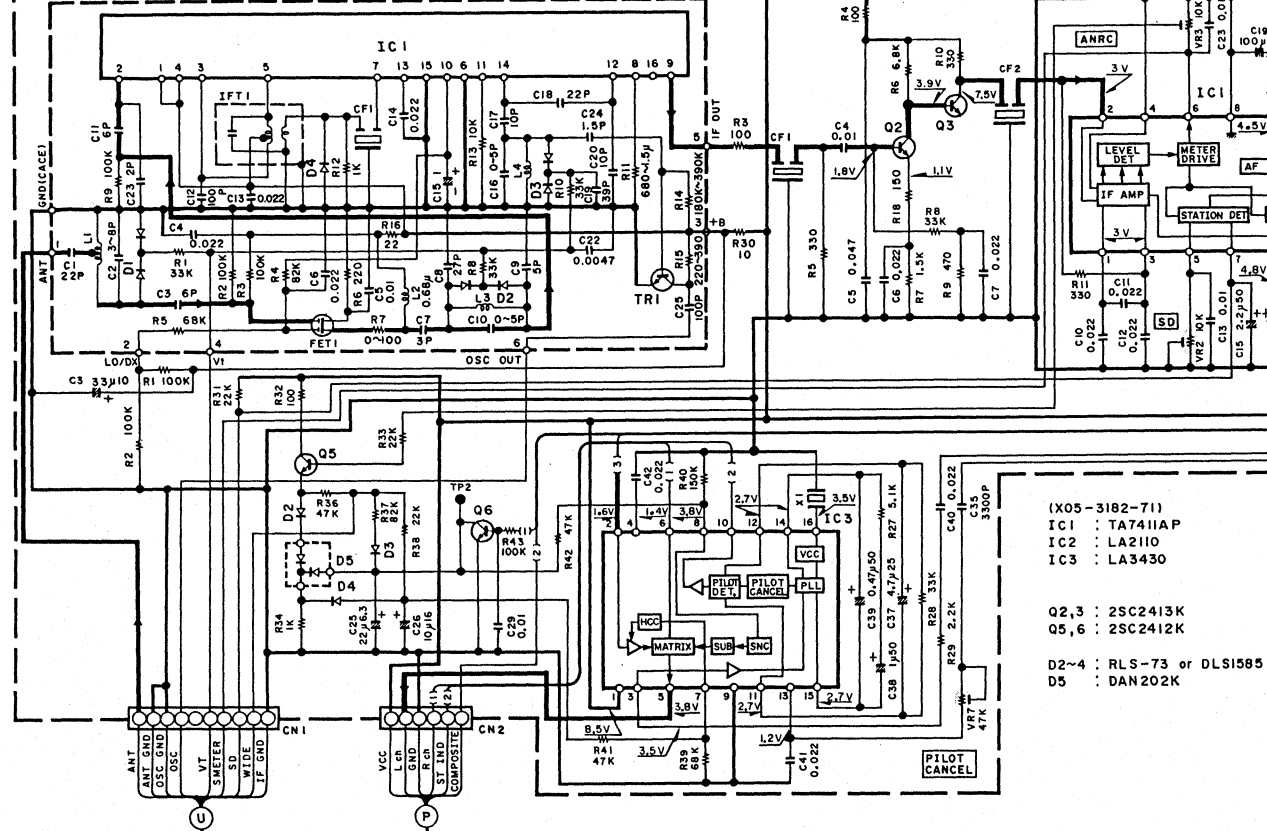
4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong

1986-11/1988-11/1989-1(O)100

TUNER (X05-3182-71) FM FRONT-END (W02-0718-05)



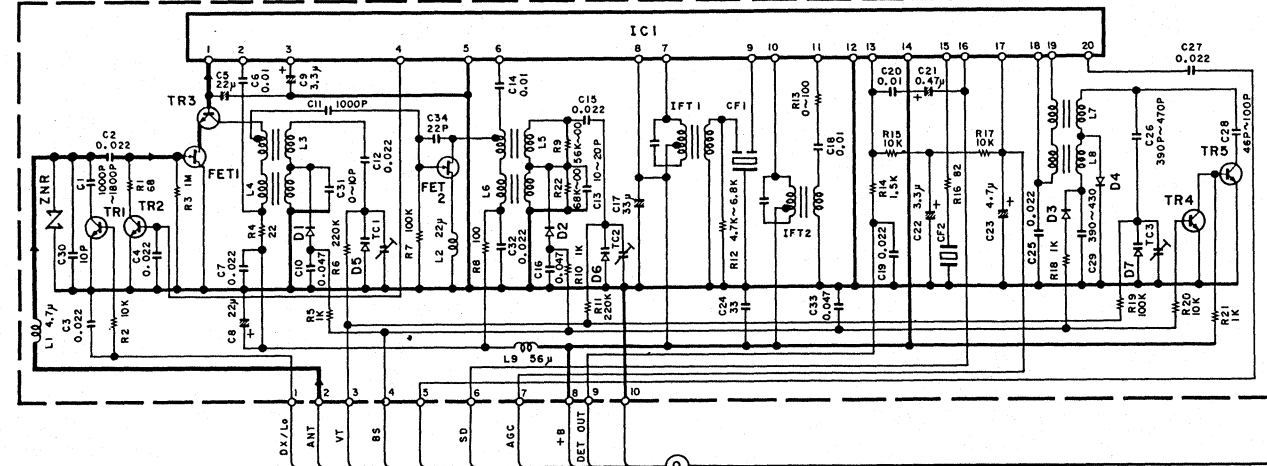
(X05-3182-71)
IC1 : TA7411AP
IC2 : LA2110
IC3 : LA3430

Q2,3 : 2SC2413K
Q5,6 : 2SC2412K
Q2,4 : RLS-73 or DLS1585
Q5 : DAN202K

FM FRONT-END (W02-0718-05)
FET1 : 3SK114
DI-3 : ISV103
D4 : IS1555
TRI : 2SC2669
IC1 : HA12438
(W02-0653-05)
IC1 : LA1135
FET1 : 2SK163
FET2 : 2SK184
TRI-5 : 2SC2814, 2SC2620
or 2SC2714
TR6 : 2SC2669

DI-4 : ISS110, ISS53
or IS1555
D5-7 : SVC321 or ISV149

NW/LW (W02-0653-05)

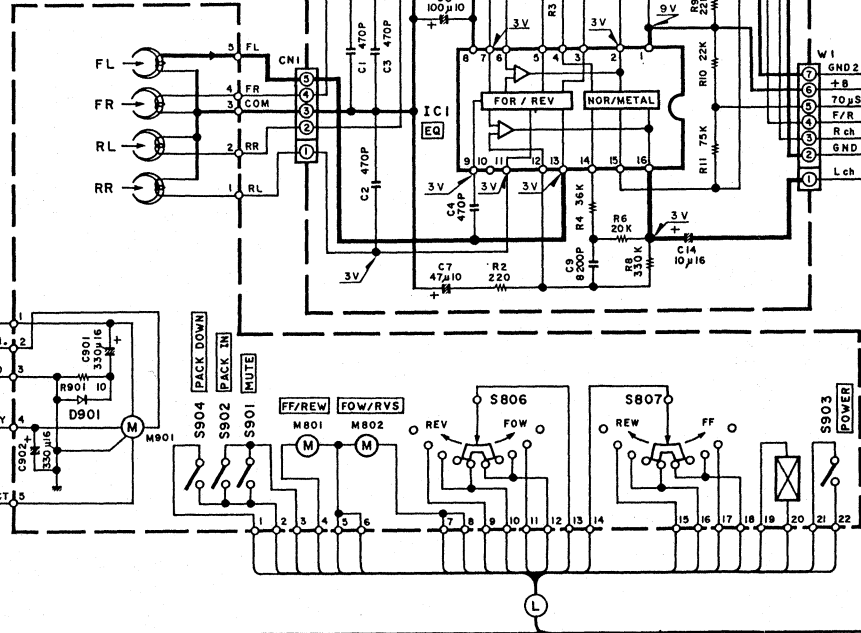


(X14-2002-70)
IC1 : KC-821
IC2 : 7508G(M)-817-00
IC3 : TC4030BF
IC4 : NJM2903M
IC5 : 7508G(M)-814-00
IC6 : TC4028BF
IC7 : BA614
IC8 : BA618
IC9 : TC4011BF
IC10 : PDI707G-544-00
IC11 : P8553AC
IC12 : T062506P
IC13 : PAB1C

Q1,2,9-13,19,24,29,32,54,55,57,59-63,67-69
72,75,77,81,82,86-88,93,94,98,105,108
Q3,4,30,31,83,85
Q5-7,51
Q8
Q14,16,17,20,25,52,65,70,73,74,79,90,101,104
106,107
Q15,21-23,26,28,33,34,56,76,92,95,102,109
Q27
Q53,78
Q58,64,84,96
Q66

Q71 : 2SD1383K(B)
Q80 : DTC114YK
Q89,99,100 : 2SC2412K(S)
Q91 : 2SA1037K
Q103 : 2SA1036K
D1-11,13-45,54-56,58-65,68-69,92,93,95-100
102-107 : RLS-73 or DLS1585
D12,101 : RLZJ10
D50 : RLZJ6.8
D51 : RLZJ5.6
D52 : RLZJ6.2
D53 : RLZJ5.1
D57 : RLZJ8.2

(D40-0341-05)



2SB1015
2SB1015LB

2SC2669

DTA114YK
DTA124EK
DTA144EK
DTC143EK
2SA1036K
2SA1037K

2SC2412K
2SC2413K
2SC2620
2SC2714
2SC2814
2SD1383K

2SD1766

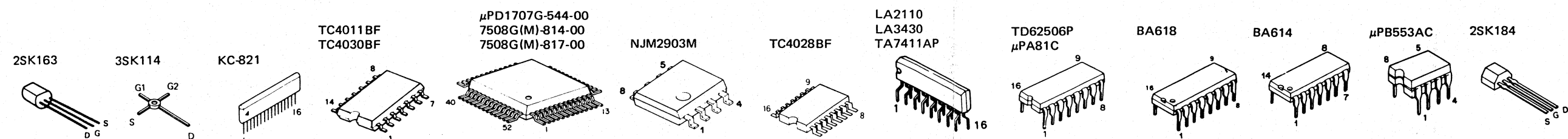
2SB1188

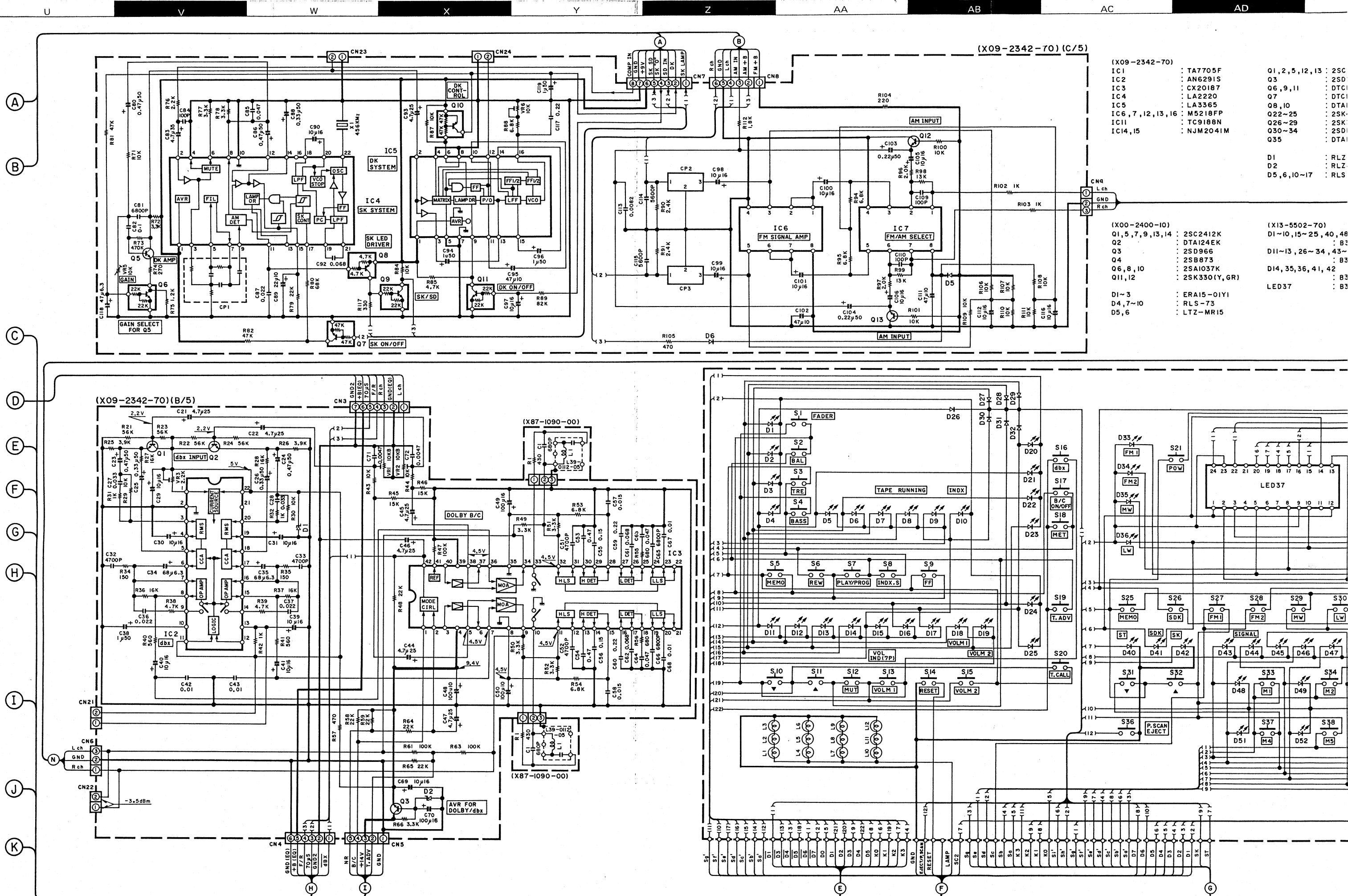
2SK

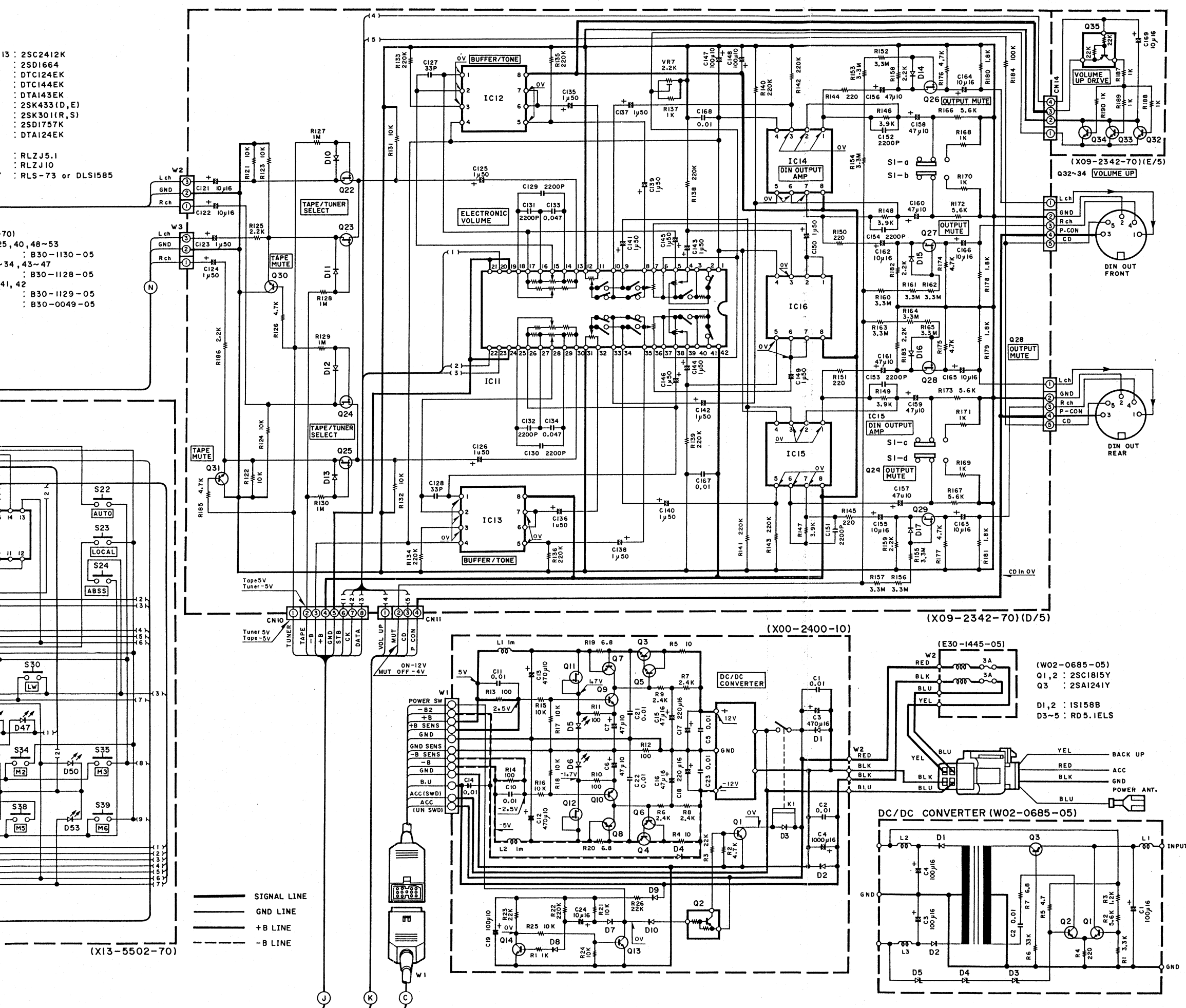
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

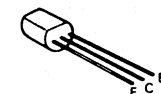
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.







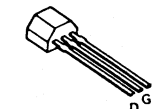
2SB873
2SD966



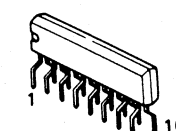
2SD1664



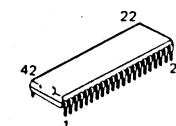
2SK330



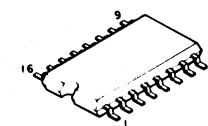
LA3365



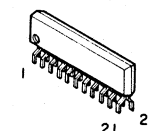
CX20187



TA7705F



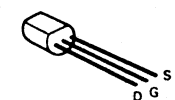
LA2220



DTA124EK
DTA143EK
DTC124EK
DTC144EK
2SA1037K
2SD2412K
2SC2412K
2SD1757K



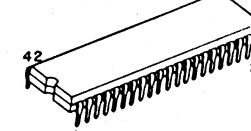
2SK301



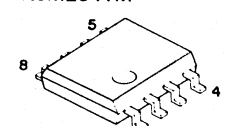
2SK433



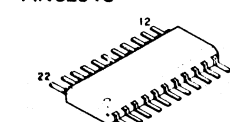
TC9188N



M5218FP
NJM2041M



AN6291S



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- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

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KRC-949D
KENWOOD